

1 atgaagtctg gctccggagg aggggtccccg acctcgctgt ggggggctcgt gttttctctcc
61 gccgcgctct ctctctggcc gacgagtggg gaaatctgtg ggcccggcat tgacatccgc
121 aacgactatc agcagctgaa gcgcctggaa aactgcacgg tgatcgaggg ctctctccac
181 atcctgctca tctccaaggc cgaggactac cgaagctacc gcttccccaa gctcaccgtc
241 atcactgagt acttgctgct ctcccgagtc gctggcctcg agagcctggg agacctcttc
301 cccaacctca cagtcattccg tggctggaaa ctcttctaca actacgcact ggtcatcttc
361 gagatgacca atctcaagga tattgggctt tataatctga ggaacattac tcgggggggccc
421 atcaggattg agaagaacgc cgacctctgt tacctctcca ccatagactg gtctctcatc
481 ttggatgcgg tgtccaataa ctacattgtg ggggaacaagc ccccgaggga atgtggggac
541 ctgtgtccag ggacattgga ggagaagccc atgtgtgaga agaccacat caacaatgag
601 tacaactacc gctgctggac cacaatcgc tgccagaaaa tgtgcccaag tgtgtgctgg
661 aagcgagcct gcaccgagaa caacgagtgc tgccaccgg agtgccctggg cagctgccac
721 acaccggacg acaacacaaac ctgcgtggcc tgcagacact actactacaa aggcgtgtgt
781 gtgcctgcct gccgcctgg cacctacagg ttcgagggct ggcgctgtgt ggcgtgcgat
841 ttctgcgcca acatcccaa cgctgagagc agtgactcgg atggctctct tatccacgac
901 gatgagtgc tgcaggagt tccctcaggc ttcattccgca acagcaccca gagcatgtac
961 tgtatccctc gcgaaggccc ctgccccaaa gtctgcggcg atgaagagaa gaaaacgaaa
1021 accatcgatt cggtgacttc tgctcaaatt ctccaaggat gcaccatcct gaagggcaat
1081 ctgcttatta acatccggag aggcaataac attgcctcgg agttggagaa ctctcatggg
1141 ctcatcgagg tggtgaccgg ctacgtgaag atccgccatt ctcatgcctt ggtctctctg
1201 tctctcctga agaaccctcg tctcatctta ggagaggagc agctggaagg gaactactcc
1261 ttctatgtcc tagacaacca gaacttgcag cagctgtggg actggaacca ccggaactcg
1321 accgtcaggt ccggaagat gtactttgct ttcaatccca agctgtgtgt ctccgaaatt
1381 taccgcatgg aggaagtgc cggaaaccaag ggacgccaga gcaaagggga cataaacacc
1441 aggaacaacg gagagcgagc ttctgtgtaa agtgatgttc tccgtttcac ctccaccacg
1501 acctggaaga accgaatcat cataacgtgg caccggtagc ggccgcccga ctaccgggat
1561 ctcatcagct tcacagttta ctacaaggag gcaccattta aaaacgttac ggaatatgac
1621 gggcaggatg cctgtggctc caacagctgg aacatgggtg atgtagacct gcctccgaac
1681 aaggagggcg agcctggcat tttactgcat gggctgaagc cctggacca gtatgtgttc
1741 tatgtcaagg ctgtgacct caccatggtg gaaaacgacc atatccgtgg ggccaaaagt
1801 gaaatcctgt acattcgac caatgcttca gtcccttcca tccccctaga tgcctctca
1861 gcatcaaaact ctctctctca gctgattgtg aagtggaatc ctccaactct gcccaatgg
1921 aacttgagtt actacattgt gaggtggcag cggcagcccc aggatgggta cctgtaccgg
1981 cacaactact gctccaaaga caaaataccc atcagaaagt acgccgatgg taccatcgac
2041 gtggaggagg tgacggaaaa tccaagaca gaagtgtgtg gtggtgataa agggccatgc
2101 tgcgcttgcc ctaaaactga agctgagaag caggctgaga aggaggaggc tgagtaccgt
2161 aaagtctttg agaatttcct tcacaattcc atctttgtgc ccaggcccga aaggaggcgg
2221 agagacgtca tgcaagtggc caacacgacc atgtccagcc gaagcaggaa caccacggta
2281 gctgacacct acaatatcac agaccggag gagttcgaga cagagtacc tttctttgag
2341 agcagagtgg ataacaagga gaggactgtc atctccaacc tccggccttt cactctgtac
2401 cgcacgcata tccacagctg caaccacgag cgtgagaagc tgggctgcag cgcctcaac
2461 ttcgtctttg cgagaaccat gccagcagaa ggagcagatg atatccctgg tccggtgacc
2521 tgggagccaa gaccgaaaa ctccatcttt ttaaagtggc cagaacccga gaaccccaac
2581 ggattgatcc taatgtatga aattaaatac gggctcgcaag tcgaggatca gcgggaatgt
2641 gtgtccagac aggagtacag gaagtacgga ggggccaac tcaaccgtct aaaccaggg
2701 aactatacag cccggattca ggctacctc ctctctggga atgggtcatg gacagatcct
2761 gtgttcttct atgtccccgc caaaacgacg tatgagaact tcatgcatct gatcattgct
2821 ctgccgggtg ccatacctgct gatcggtggg gggctgggta tcatgctgta tgtcttccat

FIGURE 1A

```

2881 agaaagagaa ataacagcag gttgggcaat ggagtgcctgt atgcttctgt gaaccccgag
2941 tatttcagcg cagctgatgt gtacgtgcct gatgaatggg aggtagctcg agagaagatc
3001 accatgaacc gggagctcgg acaaggggtcc tttgggatgg tctatgaagg agtggccaag
3061 ggtgtggtca aggatgaacc cgaaaccaga gtggccatca agacggtaaa cgaggctgca
3121 agtatgcgtg aaagaatcga gtttctcaac gaggcctcgg tgatgaagga gttcaattgt
3181 caccatgtgg tccggttgct ggggtgtggta tcccaaggcc agcccaccct ggtcatcatg
3241 gaactaatga cacgcggtga tctcaaaagt tatctccggc ctctgaggcc agaagtggag
3301 cagaataatc tagtcctcat tcctccgagc ttaagcaaga tgatccagat ggctggagag
3361 attgcagatg gcatggccta cctcaatgcc aacaagttcg tccacagaga ccttgctgct
3421 aggaactgca tggtagccga agatttcaca gtcaaaaattg gagatttcgg tatgacacga
3481 gacatctacg agacggacta ctaccggaaa ggcgggaagg gtttgctgcc tgtgcgctgg
3541 atgtctcccc agtccctcaa ggatggtgtc ttcactactc attctgatgt ctggctcttc
3601 ggggtcgtcc tctgggagat gccacgctg gctgagcagc cctaccaggg cttgtccaac
3661 gagcaagttc ttcgtttcgt catggagggt ggccttctgg acaagccgga caactgccct
3721 gatatgctgt ttgaacttat gcgcatgtgc tggcagtata accccaagat gcggccctcc
3781 ttcctggaga tcatcggcag catcaaggat gagatggagc ccagcttcca ggaggtctcc
3841 ttctactaca gcgaggagaa caagcctccc gagccagagg agctggagat ggagctggag
3901 atggagcctg agaacatgga gagcgtccca ctggaccctt cggcctcctc agcctccctg
3961 cctctgcctg aaagacactc aggacacaag gctgagaatg gcccgggccc tggcgtgctc
4021 gttctccgcg ccagttttga tgagagacag ccttacgctc acatgaacgg gggacgcgcc
4081 aacgagaggg ccttgccctc gccccagtc tegacctgct gatcctcgga cacaccgaag
4141 cacgcgccaa cagtaacgtg tgtgccccac tcggtgggcg gggggcgggg gaggggagag
4201 caggttgtaa caatctatc acaagcctcc tgtacctcag tggatcttca gacctgccat
4261 tgctgcccac gggagacggc ttctctgcag taaacacatt tgggaccttc cttttttcaa
4321 tatgcaagca gctttttatt tcctttaccc gaacccttaa ctgacatggg cctctgcaaa
4381 ccttaatgac aacacttaat agcaacagga cactcgagaa ttgagtctct tcgttctctg
4441 cctttttctc tcctctgect tcctctctct ccctctcccc ttccacttcc acgctctcct

```

FIGURE 1B

```

1 mks gsgggsp tslwglvfls aalslwptsg eicgpgidir ndyqqklrle nctviegflh
61 illiskaedy rsyrfpkltv iteylllfrv agleslgdlf pnltvirgwk lfynyalvif
121 emtnlkdigl ynlnrnitrga irieknadlc ylstidwsli ldavsnnyiv gnkppkecgd
181 lcpgtleekp mcekttinne ynyrcwttnr cqkmcpsvcg kractennec chpeclgsch
241 tpddnttcva crhyyykgvc vpacppgtyr fegwrcvdrd fcanipnaes sdsdgfvihd
301 decmqecpsg firnstqsmc cipceggpcpk vcgdeekktk tidsvtsaqm lggctilkgn
361 llinirrgnn iaselenfmg lievvtgyvk irhshalvsl sflknrlrlil geeqlegnys
421 fyvldnqnlq qlwdwnhrnl tvrsgkmyfa fnpklc vsei yrmeevtgtk grqskgdint
481 rnngerasce sdvlftrstt twknriiitw hryrppdyrd lisftvyyke apfkntveyd
541 ggdacgsnsw nmvdvdlppn kegepgillh glkpwtqyav yvkavtltmv endhirkaks
601 eilyirtnas vpsipldvls asnsqsliv kwnpptlpng nlsyyivrwq rqpqdgylr
661 hnycskdkip irkyadgtid veevtenpkt evcggdkgpc cacpkteaek qaekeeaeyr
721 kvfenflhns ifvprperrr rdvmqvantt mssrsrnttv adtynitdpe efeteyppffe
781 srvdnkertv isnlrpftly ridihscnhe aeklgcsasn fvfartmpae gaddipgpvt
841 weprpensif lkwpepenpn glilmyeiky gsqvcdqrec vsrqeyrkyg gaklnrlnpg
901 nytariqats lsgngswtdp vffvyvaktt yenfmhliia lpvaillivg glvimlyvfh
961 rkransrlgn gvlyasvnp yfsaadvyvp dewevareki tmnrelgggs fgmvyegvak
1021 gvvkdepetr vaikt vneaa smreriefln easvmkefnc hhvvrllgvv sggqptlvim
1081 elmtrgdlks ylrslrpeve qnnlvlipps lskmiqmage iadgmaylna nkfvhrdlaa
1141 rncmvaedft vkigdfgmtr diyetdyrk ggkgllpvrw mspeslkdgv ftthsdvwsf
1201 gvvvlweiatl aeqpyqglsn eqvlrfvmeg glldkpdncp dmlfelmrnc wqynpkmrps
1261 fleiigsikd emepsfgev fyyseenkpp epeelemele mepenmesvp ldpsassasl
1321 plperhsghk aengpgpgvl vlrasfderq pyahmnggra neralplpqs stc

```

FIGURE 2

```

1 gctcattcat ttcactcgc catttctgcc cctcgccggc ctcgcccgcg cccgggactt
61 cggaccagtc tcgccaaactg cgctcgcgctc tcccgcgcgc taggctccgg tggctggttc
121 ctccggggat cgggtggcgt ttgtcctcgc ctgcggcgat ttgggctttg ctccctctttc
181 tgtacagttt tctctcttct tctgcatctc tgcgtttgca aatggaggcc gacgacgcgc
241 acagcccgc cggcgcgcc cgccctccc gactccgcgc ccccggtggc cgctgctgcc
301 ggcgctgagg ggccgcccc cgccacctc cttgtccacg ccgctttccg aggatcgctc
361 cctgcgctct tgttttttga cgagagttag gactgagttg gagacttttt ttttcttttt
421 ttctttttct tttttttttt ttttctattt ttgagaaaag ggaatttcgt cccaaataaa
481 aggaatgaag tctggctccg gaggagggtc cccgacctcg ctgtgggggc tctgttttct
541 ctccgcgcgc ctctctctct ggccgacgag tggagaaatc tgtggggccg gcattgacat
601 ccgcaacgac tatcagcagc tgaagcgctt ggaaaactgc acggtgatcg agggcttctt
661 ccacatcctg ctcatctcca aggccgagga ctaccgaagc taccgcttcc ccaagctcac
721 cgtcatcact gactacttgc tgctcttccg agtcgctggc ctcgagagcc tgggagacct
781 cttccccaac ctacagtcga tccgtggctg gaaactcttc tacaactacg cactggctcat
841 cttcgagatg accaatctca aggatattgg gctttataat ctgaggaaca ttactcgggg
901 ggccatcagg attgagaaga acgcccacct ctgttacctc tccaccatag actggtctct
961 catcttggtg gcggtgtcca ataactacat tgtggggaac aagccccga aggaatgtgg
1021 ggacctgtgt ccaggacat tggaggagaa gcccatgtgt gagaagacca ccatcaacaa
1081 tgagtacaac taccgctgct ggaccacaaa tcgctgccag aaaatgtgcc caagtgtgtg
1141 cgggaagcga gcctgcaccg agaacaacga gtgctgccac ccggagtgcc tgggcagctg
1201 ccacacaccg gacgacaaca caacctgcgt ggcctgcaga cactactact acaaaggcgt
1261 gtgtgtgcct gctgcccgc ctggcaccta caggttcgag ggctggcgct gtgtggatcg
1321 cgattttctg gccaacatcc ccaacgctga gagcagtga tcggatggct tctgtatcca
1381 cgacgatgag tgcattgcag agtgctccct aggttctatc cgcaacagca cccagagcat
1441 gtactgtatc ccctgcgaag gcccctgccc caaagtctgc ggcgatgaag agaagaaac
1501 gaaaaccatc gattcgggtga cttctgctca aatgctccaa ggatgcacca tctgaagggt
1561 caatctgctt attaacatcc ggagaggcaa taacattgcc tcggagttag agaacttcat
1621 ggggctcatc gaggtggtga ccggctacgt gaagatccgc cattctcatg ccttggctct
1681 cttgtccttc ctgaagaacc ttcgtctcat cttaggagag gagcagctgg aagggaacta
1741 ctcccttctat gtcctagaca accagaactt gcagcagctg tgggactgga accaccggaa
1801 cctgaccgtc aggtccggaa agatgtactt tgctttcaat cccaagctgt gtgtctccga
1861 aatttaccgc atggaggaag tgaccggaac caagggacgc cagagcaaag gggacataaa
1921 caccaggaac aacggagagc gagcttctct tgaaagtgat gttctccgtt tcacctccac
1981 cacgacctgg aagaaccgaa tcatcataac gtggcaccgg taccggccgc cggactaccg
2041 ggatctcatc agcttcacag ttactacaa ggaggcacca tttaaaaacg ttacggaata
2101 tgacgggcag gatgcctgtg gctccaacag ctggaacatg gtggatgtag acctgcctcc
2161 gaacaaggag ggcgagcctg gcattttact gcatgggctg aagccctgga cccagtatgc
2221 tgtctatgtc aaggctgtga ccctcaccat ggtggaaaac gaccatatcc gtggggccaa
2281 aagtgaatc ttgtacattc gcaccaatgc ttcagtcctt tccattcccc tagatgtcct
2341 ctcagcatca aactcttctt ctacgtgtat tgtgaagtgg aatcctccaa ctctgcccac
2401 tggtaacttg agttactaca ttgtgaggtg gcagcggcag cccaggatg gttacctgta
2461 ccggcacaac tactgctcca aagacaaaat acccatcaga aagtacgcgc atggtaccat
2521 cgacgtggag gaggtgacgg aaaatcccaa gacagaagtg tgtggtggtg ataaagggcc

```

Figure 3A

```

2581 atgctgcgct tgcctaaaa ctgaagctga gaagcaggct gagaaggagg aggctgagta
2641 ccgtaaagtc tttgagaatt tccttcacaa ttccatcttt gtgccagggc ccgaaaggag
2701 gcggagagac gtcattgcaag tggccaacac gaccatgtcc agccgaagca ggaacaccac
2761 ggtagctgac acctacaata tcacagaccc ggaggagtcc gagacagagt accctttctt
2821 tgagagcaga gtggataaca aggagaggac tgatcatctcc aacctccggc ctttcaactt
2881 gtaccgcctc gatattccaca gctgcaacca cgaggctgag aagctgggct gcagcgcctc
2941 caacttcgtc tttgcgagaa ccatgccagc agaaggagca gatgatattc ctgggtccgtt
3001 gacctgggag ccaagacccg aaaactccat ctttttaaa tgccagaac ccgagaaccc
3061 caacggattg atcctaattg atgaaattaa atacgggtcg caagtcgagg atcagcggga
3121 atgtgtgtcc agacaggagt acaggaagta cggaggggccc aaactcaacc gtctaaaccc
3181 agggaaactat acagcccggg ttcaggctac ctccctctct gggaatgggt catggacaga
3241 tcctgtgttc ttctatgtcc ccgcaaaac gacgtatgag aacttcatgc atctgatcat
3301 tgctctgccc gttgccatcc tgctgatcgt tggggggctg gttatcatgc tgtatgtctt
3361 ccatagaaag agaaataaca gcagggtggg caatggagtg ctgtatgctt ctgtgaaccc
3421 cgagtatttc agcgcagctg atgtgtacgt gcctgatgaa tgggaggtag ctcgagagaa
3481 gatcaccatg aaccgggagc tcggacaagg gtcctttggg atggtctatg aaggagtggc
3541 caaggggtgt gtcaaggatg aaccggaaac cagagtggcc atcaagacgg taaacgaggg
3601 tgcaagtatg cgtgaaagaa tcgagtttct caacgaggcc tcggtgatga aggagttcaa
3661 ttgtcaccat gtggtccggt tgctgggtgt ggtatcccaa ggccagccca ccctgggtcat
3721 catggaacta atgacacgcg gtgatctcaa aagttatctc cgtctcttga ggccagaagt
3781 ggagcagaat aatctagtcc tcattctctc gagcttaagc aagatgatcc agatggctgg
3841 agagattgga gatggcatgg cctacctcaa tgccaacaag ttcgtccaca gagaccttgc
3901 tgctaggaaac tgcatggtag ccgaagattt cacagtcaaa attggagatt tcggtatgac
3961 acgagacatc tacgagacgg actactaccg gaaaggcggg aagggggttc tgctgtgctg
4021 ctggatgtct cccgagtccc tcaaggatgg tgtcttctac actcattctg atgtctggct
4081 cttcgggggtc gtcctctggg agatcgccac gctggctgag cagccctacc agggcttgtc
4141 caacgagcaa gttcttcggt tcgtcatgga ggggtggcct ctggacaagc cggacaactg
4201 ccctgatatg ctgtttgaac ttatgcgcat gtgctggcag tataacccca agatgcggcc
4261 ctccttctct gagatcatcg gcagcatcaa ggatgagatg gagccagctc tccaggaggt
4321 ctccttctac tacagcgagg agaacaagcc tcccagacca gaggagctgg agatggagcc
4381 tgagaacatg gagagcgtcc cactggaccc ttcggcctcc tcagcctccc tgctctgccc
4441 tgaaagacac tcaggacaca aggtgagaa tggcccgggc cctggcgtgc tcgttctccg
4501 cgccagtttt gatgagagac agccttacgc tcacatgaac gggggacgcy ccaacgagag
4561 ggccttgcct ctgccccagt cctcgacctg ctgatectcg gacacaccga agcacgcgcc
4621 aacagtaacg tgtgtgcgcc cactcgggtg gcgggggggg ggggagggga gagcaggttg
4681 taacaatcta ttcacaagcc tcctgtacct cagtggatct tcagacctgc cattgtctgc
4741 cacgggagac ggcttctctg cagtaaacac atttgggacc ttcctttttt caatatgcaa
4801 gcagcttttt atttctttta cccgaaccct taactgacat gggcctctgc aaaccttaat
4861 gacaacactt aatagcaaca ggacactcga gaattgagtc tcttctgtct ctgccttttt
4921 ctctcctctg ccttccctct ctgcctctct ccttccact tccacgctct cct

```

Figure 3B

```

ID 1: 3727      ct0g ttt gaa ctt atg cgc atg tgc tgg cag tat aac ccc aag atg cgg ccc tcc ttc ctg 3786
                ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
ID 3: 4211      ct0g ttt gaa ctt atg cgc atg tgc tgg cag tat aac ccc aag atg cgg ccc tcc ttc ctg 4270
aa : 1243      l f e l m r m c w q y n p k m r p s f l 1262

ID 1: 3787      gag atc atc ggc agc atc aag gat gag atg gag ccc agc ttc cag gag gtc tcc ttc tac 3846
                ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
ID 3: 4271      gag atc atc ggc agc atc aag gat gag atg gag ccc agc ttc cag gag gtc tcc ttc tac 4330
aa : 1263      e i i g s i k d e m e p s f q e v s f y 1282

ID 1: 3847      tac agc gag gag aac aag cct ccc gag cca gag gag ctg gag atg gag ctg gag atg gag 3906
                ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
ID 3: 4331      tac agc gag gag aac aag cct ccc gag cca gag gag ctg gag atg gag c-- --- --- --- 4379
aa : 1283      y s e e n k p p e p e e l e m e l e m e 1302

ID 1: 3907      gct gag aac atg gag agc gtc cca ctg gac cct tcg gcc tcc tca gcc tcc ctg cct ctg 3966
                ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
ID 3: 4380      -ct gag aac atg gag agc gtc cca ctg gac cct tcg gcc tcc tca gcc tcc ctg cct ctg 4438
aa : 1303      p e n m e s v p l d p s a s s a s l p l 1322

ID 1: 3967      cct gaa aga cac tca gga cac aag gct gag aat ggc ccg ggc cct ggc gtg ctc gtt ctc 4026
                ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
ID 3: 4399      cct gaa aga cac tca gga cac aag gct gag aat ggc ccg ggc cct ggc gtg ctc gtt ctc 4498
aa : 1323      p e r h s g h k a e n g p g p g v l v l 1342

ID 1: 4027      cgc gcc agt ttt gat gag aga cag cct tac gct cac atg aac ggg gga cgc gcc aac gag 4086
                ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
ID 3: 4499      cgc gcc agt ttt gat gag aga cag cct tac gct cac atg aac ggg gga cgc gcc aac gag 4558
aa : 1343      r a s f d e r q p y a h m n g g r a n e 1362

ID 1: 4087      agg gcc ttg cct ctg ccc cag tcc tcg acc tgc tga 4122
                ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
ID 3: 4559      agg gcc ttg cct ctg ccc cag tcc tcg acc tgc tga 4594
aa : 1363      r a l p l p q s s t c * 1373

```

FIGURE 4

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ID 5: 1      agagtggccatcaagacggtaaacgaggctgcaagtatgcgtgaaagaatcgagtttctc 60
            ||||||||||||||||||||||||||||||||||||||||||||||||||||
ID 6: 56632  agagtggccatcaagacggtaaacgaggctgcaagtatgcgtgaaagaatcgagtttctc 56573

ID 5: 61      aacgaggcctcggtgatgaaggagttcaattgtcaccatgtg0gtaagaagccaagatgag 120
            |||||||||||||||||||||||||||||||||||||||| ||||||||||||||||
ID 6: 56572  aacgaggcctcggtgatgaaggagttcaattgtcaccatgtg0gtaagaagccaagatgag 56513

ID 5: 121     acatggacagaaagtatggacagaaaggaccaccctgtatgtccttggccagctacggaa 180
            |||||||||||||||||||||||||||||||||||||||| ||||
ID 6: 56512  acatggacagaaagtatggacagaaaggaccaccctgtatgtccttggccagctac-gaa 56454

ID 5: 181     ttgttgcccttgccctcttcccagtgggtagtttccccggttgcatctcttgccacccacaga 240
            |||||||||||||||||||||||||||||||||||||||| ||||||||||||||||
ID 6: 56453  ttgttgcccttgccctcttcccagtgggtagtttccccggttgcatctcttgccacccacaga 56394

ID 5: 241     cccttgaggtgggagcctcgccctcgccctcccaccagaactctgctcctggctacaggc 300
            |||||||||||||||||||||||||||||||||||||||| ||||||||||||||||
ID 6: 56393  cccttgaggtgggagcctcgccctcgccctcccaccagaactctgctcctggctacaggc 56334

ID 5: 301     ccagcaccaccagttccgagaggcgtaggtcatcatgtgggatgccccctccccctc 360
            |||||||||||||||||||||||||||||||||||||||| ||||||||||||||||
ID 6: 56333  ccagcaccaccagttccgagaggcgtaggtcatcatgtgggatgccccctccccctc 56274

ID 5: 361     tgagtccttttcttgattcctccag0gtccggttgctgggtgtggtatcccaaggccagcc 420
            |||||||||||||||||||||||||||| ||||||||||||||||||||
ID 6: 56273  tgagtccttttcttgattcctccag0gtccggttgctgggtgtggtatcccaaggccagcc 56214

ID 5: 421     caccctggtcatcatggaactaatgacacgcggtgatctcaaaagtatatctccggtctct 480
            |||||||||||||||||||||||||||||||||||||||| ||||
ID 6: 56213  caccctggtcatcatggaactaatgacacgcggtgatctcaaaagtatatctccggtctct 56154

ID 5: 481     gaggcc 486
            |||||
ID 6: 56153  gaggcc 56148

```

FIGURE 5

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1  gaattccaga  tggaagctga  cttcctgctc  agccctatta  aaaaaaaaca  caggctttcc
61  tgcctctgag  ccccttcgcc  acaaataact  tgagtgccat  gcacggaggt  gccacttgt
121  ggcttaggtt  ctctcagacc  ttgtttgtcc  ttcagcccct  tggggaggag  cccaggctac
181  cacctgctgt  ccctaagcct  aggaccaggt  ggagaccatc  gaattgcaga  tttagacaga
241  attaaccatc  acagggcctc  ataccatcct  ttttaaagga  ccaggccttg  atggagactg
301  cagtcgccaa  cccccatggt  gcttttgcta  ctatggaaac  actgaaataa  ccaacacaca
361  cactggttgt  ggatgccact  gaacacacac  acacacacac  acacacacac  acacacacac
421  tggttgatgc  ctctgaaccc  caaaagggtca  gcctggaagg  aatgggtggc  gctctgtcct
481  ccatctcagc  cgcacatctg  aagtcacccc  agccacaggc  acctgtcatt  gtcacagctg
541  gtccctatgg  gcttactctt  tcctcacgat  gctcttattt  ttagtcagac  accaaagcgc
601  tttattttatt  tttagttaga  cacatttggt  acatttcaag  tttccaact  tgtattcgat
661  aaagggaaac  aaaggattcc  tgtcacctgt  cctaattgaa  agcttctttg  ataaatactt
721  tcggacagtg  attcatacta  tcagccttcc  aaaaggagga  aggaaaaaaa  aaaaaagaa
781  aagaaaagag  cattcttttg  agacactctt  attcccttgc  acttctgatt  tgttttttt
841  tttttttttt  ttatttcggg  tccagagatg  gaatgggtca  aattacattt  gacgtcctca
901  ggaaaccata  ctcttggtaa  aagcagtgcc  tgtctcaaat  gaaatatggg  catggaaatg
961  tgctgcccc  tcttggaact  acgtctttcc  ctacatttct  ctcatcagcc  agcagttgct
1021  gggagtcagg  cgccattggg  aaatgcccac  tggatcccag  agtgtggcct  gcctttatta
1081  gtaatgtttt  gagtttgccg  gaggacagac  tcttcatttt  attggagccc  ctagtttgtt
1141  aaatcttgtc  ttgacaactg  gtatgtagac  agatgggtgaa  atgcaaggat  tctaacaac
1201  agcctttaga  ttaagggtgt  ggctgggacc  aacagtaaaa  tgagagacca  ggcgaacctg
1261  cagtcctccc  cagggttcga  tgattctacc  acattttctg  gctgactacc  caactctatt
1321  ccaaggcagt  cttgatgggg  aatgaggctt  agcccagcaa  aacaagacct  tctaaccttg
1381  ctcccggagt  tgtctttcct  aatttaaaac  aaacaaggat  gtagtttcct  caaagctgaa
1441  tgtggttcta  aagtgtgtga  aatgtgtgtt  gatgggtttt  taatgatcct  agaggaagct
1501  ggcttctcgg  tctttctact  taatctcaac  attttctaag  ccgttcttta  gagctgcagg
1561  ttcccacagc  agctgcaaga  ctgtgtatcc  tatcagtcaa  agccagatgg  tagtcctgag
1621  atgggtggg  attctgttga  aaagctttct  gtcccctgaa  gtttttctcc  ctaggaacca
1681  atcctgatga  tgggccacga  ccaatacact  cagcagttgc  caggcacagc  tggatcccc
1741  ctccagtgt  gctacctact  ctagaggccc  tgggggtccag  cgacttgatg  tagcatcctg
1801  atcttttaca  gactggaaag  tgtggcaact  gagaagtatg  cgctgagagt  caggtgaggg
1861  actcaaacc  tcagtcatac  tccagataaa  actgatcagg  acgatgtcct  accctacctg
1921  cagcccaagc  tgagatgagg  ctcccctcct  ctcatgtctga  catgctagcc  tccccagga
1981  ggaggccaca  catttttcat  tttagaaata  tagatcaaga  agaaattgta  aagaaagaga
2041  actccttgca  aatctcacta  gggttgcctg  atgctgacat  cttcaatgtc  caatccaatg
2101  tactaacatc  agtacaatta  agaaagagag  aagcagagag  agggggagaa  ggaagggaag
2161  gagaacggga  tggaggggtt  gaggaatgag  tatgtgtgca  cgtgcacaca  gaccgctcta
2221  tacaatttag  accagtgcaa  ggcttctctg  aattgcctcc  acctcaaac  gccttcccc
2281  gctactccca  ccttagcttc  ttccgcactt  tcttccccca  ttttaacacg  tgggtgcctt
2341  ttcagactca  tttggctgta  ataaaatatc  cagaaaacaa  acaaacgaca  aaggataaag
2401  gagtttattt  ccgtttacaa  ttccagggtta  cagtccatcg  tgggtgggaaa  gtcagcagca

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FIGURE 6A

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2461 ggaacttcag agaattgggc gcacacacac cacagtcaag agcagagaga aatgcataca
2521 tattttgctgt cttgttttgc ttctcatgtt cagcttggat ttctccattc ttttatagtt
2581 caggactcaa tgcctaggga atgacactgc ccatagtga ctgggttccc ccacatcaat
2641 taacaagaat tggttaggaa ttgggttggc ttgtggacat gggttttttt tggaggatta
2701 tcttagttaa gctaattgat ataagcagaa ccattcccta ggcaatgatt ggctgtgtgg
2761 catgtcaaca tttcctagga atgttggcct gtgagtatgt ctgtgcccac aagtaagaca
2821 attggctaatt tgatatgaga agggccagcc cactgtaggt ggtaccattc cttaggctgg
2881 agatccttga gctgtaggag agaggagaaa tcaaactgag cacaagcaag tgagcatgtg
2941 tgcatctctc tgctctttga ctgtggatgc tatgtgactg ttgtttgaag tctgcctca
3001 actttcccac agtgatgggc tataacataa ttatatgctg aaatgaattc ctctctctc
3061 taagttgctt tcgttgttgt ttttattaca gcaacagtta aagtagaaca cttattttaa
3121 acctatggaa ggatatatag atagttttaca gcttttagagt tgtagagtgt gagaacacta
3181 ctgtaaacag tagtttccag ttctgagatc agtggccagg tgtatacatg ttactcagtc
3241 cacttttcagc tctaaaaaaa aaaaaaattg gggctcagcg gttaagagca ctgactgtct
3301 ttccaaaggt cctgagttca aatcccagca accacacggg ggctcacaac caccataaac
3361 taacaaggt ctgatgccct cttctggagc ttctgaagac agctacagtg tactcacata
3421 taataataat aaataaatct tttttttaa tctatcacca tattgcaaag tagtgtcttc
3481 cattcctatc aatatgtgag acccagtttc tcattctttc tttgtttgtt tgtttaagat
3541 tttatttatt cattgtatgt atatgagtac actgtagtgt tacagatggg tgtgggcat
3601 catgtcattg ctgggaatta aattcagtag ctccgctggc tccggccccg ctggctccag
3661 cccaaagatt tatttattgt tagacctttt aaatatatca cataatagtc tttatacaat
3721 agataagtgc tttctcagta ataacctctt aacagagttt ttatttttta tttttaacag
3781 agttttttaa agagccaaca ttcttaactc tgtggctgta tttttgcttg tcttgtttta
3841 aaacaagctc ttgggtgggt gtagtgacac ccttttagtc cagcagatac tggcagatcc
3901 ctatgaactg gtcgagagag caagttacag aaaagtcaag gttacacaga gaaacctgac
3961 taactaaggt tgagatctgc tatgtctaga tggcttatct gagctcagtg caaaatggag
4021 gactctatac catctgggct tccccctctc tgaccttgtc taggggactc cctataactc
4081 ctacctggga aaggtcaagt agcctcggaa gaccaacaaa ctctctcttt tccgcagaag
4141 aaccacacca acaagtaccc gggattcctg aaatgcctct ccatacaaat gaggaattcc
4201 aagaacttta aactctaacc aatgattttc atttaccctg aaaactcctt cacactctcc
4261 aaggtcctgg tttaccccaa ataaagtgt ttcgtacaag cccaccctta gtagaggtat
4321 ggaggtatgc tcacaaacca agatcggcta agagagctgt tttcattgaa gattgttggg
4381 gaaggccttc ttctaaaaga gctgtaactc taagatcctt cgggaaggcc ttctctccct
4441 tccccccact tccccccact agcactcact cccagcagga ccctaactct gtataaccct
4501 cccccccccc ccattctgga cactgtttca tcttcccac ccagtgtgca gtggcatctg
4561 gatacctccc tgactatggt tcatacagtc aattctgagg aagccccag attagcaagg
4621 ctgaggttct ctggggccta tagaacttgt tgccagggtg tagaacttgt tactgggtag
4681 tgtgggctgg tttgagcaaa cctgggtatc tttggtttca ggttttgggc ccttccggca
4741 gcacctagtg aattccagct gggaagccgt gaaggtaa at cctgccgttt gccccccccc
4801 cccccccccc ccgggccaac ctggttcctt ctgtggctct tgggaaaccc caatgccaat
4861 gcgcgggact cctaagaaac cagagtcacc ttggaaggaa ggcaagcagt gggccctgg

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FIGURE 6B

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4921 aagaaaggct tgtatttgggt cctggaatgg tgtgacttgc ctggtcaggt acttctctcg
4981 tttgtccagg gacactccta ggtgggacca aggcccatgt aggcctctact ctacgtaggg
5041 ctagattctt gccctctctt cctttggatg tggggctctg ggaaagtcac tttcaccagc
5101 tcttgtcctc acctacgcat gcggaagtga taacatggat gtctctggcc tccactgaca
5161 gctcaggggt agggcagcct tgtccacact gctctgtgtg agcccagcat ggggcgtggg
5221 tgagaacctg gccagtgtct gtgactgtcg acagcacgct tgcttttgag gacatagcta
5281 accaggagaa gggaagtcct ctgaccgccc actgtgcata ggagggcagg actccttggc
5341 ccaccccccac ctccctaggt caactgtctg ccatcagtc tcatgtgggt gtcacttaga
5401 ggctctgcga attgaaagct gcctgttcgc acttggcttt caacttcaca ctgatgttgg
5461 accaagccaa atgtggggcc tggagtctat tctcagagtt tcccaggcca gctgagaaac
5521 gcagcaaagc tgctagcgct atgcactcac agccaccgtg gcactgactt tgtgggtctga
5581 caacgcagag gcaggcagga gactcttgat ccttgagtta gcatttgggc ttttgctttt
5641 ccaatcataa aaaagcccag agacccttgg actcattgcc aagccttgct ctggtacaca
5701 aggtaacaga gaggccagga ccagactttc atgagctcct ggctttctgc aaccagtatt
5761 tgatcagcag gacttctgcc aagtcctcag tagtcccaga cctttttgtt tctttctgca
5821 gccgtaaaca atggaaaaga gccagactgc ttctggtttc tggtttgctt ctcagtttcc
5881 ccagttgcaa gtagtggcat tcaaaaacct tgctcgagtt ttgatgcctc cgtttcccaa
5941 tttaaataaa tgtgtgtgtg tgtgtgtgtg tgtgtgtgta tgtgagagag agagagagag
6001 agttgaggaa gtcacatgac atcccaaaga cctcttgggc atgctgatag agctcacagg
6061 ttgtccattc ccaccaggag gcttttctgt ttgtctggta cacagctgca gacacatggg
6121 atgagggtca gatcagcaca ggaagtggca gaaggagag ggttacctga ggtgggtggg
6181 aaaccccagt gcttgggact gctagtaatc aaagtcacct tggaggggag gcaagccagt
6241 gaccactgga agaaaagttt gtcttttggt cttgggtggg gtgacttgac tggtcaggta
6301 cgtcttccat gtgtgcagta aagaaaagtg gctaaggagg ctcaaggctc attaagcttg
6361 gtgaagcaaa ccagacagac acagggactg gggcttgctt gaaggcatat agtcagacat
6421 gcagacagcc aaggatagct ctgaaaagtg cacacacata cacactcaca tgcactatac
6481 acacacacac acatacacta ttctacaca catataccac aaacactata cacataccac
6541 acacatacac tcacacacac tatacacaca ccacacacat atactcacat atactataca
6601 cacacacaca tgactacac acacatatat acacacatac actctcactc aggagctata
6661 ggctgaggaa agcaagcata cactggaatg gcaggtaagg acaaaatctg tgtaagggc
6721 tggagggtatg gcttagttag tagagaactt ggttgcatgc atgtgggtct gggtaacatc
6781 ccagcactac ataaaatcag gcatgggtgt atacctagta ctagggaagt agaggcagta
6841 gaattggaac ttcaaggcta tgctctgact gctgcagact ctcatggagt ttttgtgaga
6901 atttaaaatt caaattctgg gtttggcatg gtgacctatg cctttaatcc cagccagcat
6961 tcaggaggta gaggcaggca gattactgtg ggtttaaggc tagcctgggtc tgtacagtga
7021 gttccaagac aggaatatat agagagagac cctgtttcag aacaaaacaa aataaaactc
7081 aaacttctta caaagaaatg tgaactatca gttcctagcc taagatcacc tgatacacia
7141 gaaaataaaa taccatgtta aaaaaaatca gtagatgccg ttttaaaaaa cagaattata
7201 accaggcagt ggtggcacat gcctttaata aaccagcac ttgggaggca gaggcaggca
7261 gattttttgag tttgaggcca gcctggttta caaagtgagt tccaggacag ccagggtctac
7321 acagagaaac cttgtctcaa aaatcaaaa aaaaaaaaaa aaaaaagata gcagtctgag

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FIGURE 6C

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7381 aaattagaac tatagctgac ttaaaagaca gcttagatct gtggtcagtg aaagatactg
7441 ctcacaagag actgtatcac ttgagtcac ttgcattaat gtccttagta agtaaatata
7501 ttgagagagg aagtaggtta gtgataggct aagggtggaag gacacagtaa atgaatgtga
7561 agtttcctta aagtacattt atttatattgt gtgaccatgt gtgtgtgtgt ctgtctgtct
7621 gtgcacacca tggcttgccc atgaaggcca aaggacaaca ggtaggaagg agctagaact
7681 ctccctcccc tgtataggac ctagggatgg agctcaccac agacatcggg tttgggcatc
7741 aggaaccttt accccgagcc tctcacatac ttcttttagga ttcttttaggt tgtaattcaa
7801 aggctctggc accgattgcg gtgatgggtt gttgtataac tcttgatggg gatggttata
7861 taactgagca tactgaaaga tgtggagtta aatagggtta gtacgtggaa tgtgaataag
7921 ctatctctta ggagatagat gataggaaga taggatagat agatagatag atagatagat
7981 agatagatag atgtgattag atagatagat agatagatag atagatagat agatagatag
8041 agataggtga tagactttac ccacatgtac acatatatag ctgttcagaa acagacgaag
8101 agaaattagt aaactagaat atagatatgg agatattatt caaaggacaa tataaagatg
8161 ggcaaacaag catagagggg ataagtataa tagtaaagga agtttctgtt taaatagaat
8221 tccagaggaa aataacagcg agaattggaag aaaccatct tcaaatatac agctacaatg
8281 tatgggattg gaataggttt ggtcccatag actcctgtgt ttgaatgctt ggcccacaag
8341 aagtggcact gttaggaggt ttggccttgg tggatgtttg accttgggtg aggaagtata
8401 aactgtagg ggacagactt gaagtctcct atgctcacgc tatgccatt gtggcacacg
8461 gtctccttct tgttgctgtt ggatcaagat gtagaactct tgggctggtg agatggctca
8521 gtgggtaaga gcacccgact gctcttccga aggtctggag ttcaaattcc agcaaccaca
8581 tggtaggtca caaccacccg taatgagttc tgatgccctc ttctggtgtg tctgaagaca
8641 gctacagtga acttacatat aataaataaa taaataaata aataaataaa taataaatct
8701 ttaaaaaaaa aaagatgtag aactctcagc tccttctcca gtgctatgtc tgcctggatg
8761 ttgccttgct tcctgctctg acaataatgg agtaaaccct tgaaattgta agccagcccc
8821 caattaaatg ttttccttta taaaagtga cttggcatg gtgtctcttc atagcaatgg
8881 aaaccctaac aaaggcacaa tggttaagaa tattccagag ggactggaga gagatggctc
8941 agtgggttaag agcactgttc ttccagaggt cctggagttc aatccccagc aaccacatag
9001 tggctcacia acatttgtaa tgggatctga tgcctctctc tgggtgtgtc aaagactgta
9061 ctcacattca taaaataaat aaatctttta aaaaatttcc agaactgatg aaatacttga
9121 atccacagag atagaaataa agaaaatcca cacctaaaca tagtagagtt ggagactgca
9181 aaagactgat taaggcttta gagtagccag agaggagatg gcttacttac aaaaatggat
9241 actctaacta gtagtctagg gctaactttc tcaaaaatag caatacaagc tcaaaagcag
9301 tacagtaata acctacagaa tgccaaaatt gtagctgctg aacagaaaacc gtgtagctag
9361 gagatcattc ctcgagaata aggctggggc tggagagatg gcttcgtggt taggagccct
9421 tagcgggttat gctcttctcg aggacctgcg tcaattccca gcgcccacgt caggtagttt
9481 ccaactgcct ttgatcccag ctccaaagtg aacctctaac ctttgggagc acttgcgttc
9541 acgcaagtga acacatacct ccctatacac atacacataa ttaaaataaa aaataaatct
9601 tttttttttt ttttaaagaa taaggctgga gtaaaaacat tttcacaaaa ataaatgtca
9661 ggtttactct cagaaggatg acacaagggg actgtaaaaa ggacacttgt cagaagagaa
9721 gaaaattatc acaaaaatgg tgtcttagtc aggggttttat tgctgtgaag agacactgtg

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FIGURE 6D

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9781 aacacagaat tgggggtggc ttatagtttc aggggttcag tccattattg tcatgacaag
9841 aaacatggag gtaggcaggc agacaaagga caggagaagg agctgcgagt tctacatctt
9901 gatccacagg cagccatagg agactatatg ctatactgtg catacctcaa gcataagaga
9961 cctcaaagtc actatgggga atgcttgccc catagtgact caatttctcc aacaaagcca
10021 tacctatcca acaaggccac acctcttaat atagtgtctga atagtgtctgc tccctatgga
10081 ccaagcattc aaacacagga gtctagagtc ttatgagggc cattcctatt ccaaccactg
10141 cagatggtat agaaatcact ggggaagcctg gcagtgggtga cgcatgcctt taatcccagc
10201 acttgggagg cagaggcagg tggatctctg agtttgaggc cagcctggtc tacagagtga
10261 gttccaggac agccagggtc atacagagaa accctgtctc aaaaaacaaa aaaacaaaaa
10321 caaaaaaaca aaaaaacaaa caaaaagaaa gggaggagg gatgaaggga gagagagaga
10381 gagagagaga gagagagaga gagagagaga gaaagaaatc actgggaaat ggtgagtctg
10441 agggtagaaa tctgtaccag caccaggcag tgatggcaca cacttttaat cccagtactc
10501 aagatctggt ggatgtctga gttaaaggcc agccttatgt acagagttag ttccagatca
10561 accaaggcta catagaaaaa ccctgtcttg aacatcaaaa caataaaca acataaagtc
10621 catatcagca ttgtttgtaa catgtaatag tagtagttcg taattccagg atggaactaa
10681 aattcacaa acgtcaaagg tgggtgggtc tccctccca gtgccctca ttgtcgggtga
10741 acttcaagct catctccacc atctcttcag tgacagggtc tggagcaggc tctgtcgaat
10801 cttcttgctt ttaataggac caaaggatgg tgactagaca cacctgcac ggcacctgga
10861 aagttaggtt cccgagatgg ctggctatgc ccaggctctt ggtaccccag ttggccttcc
10921 ttttggcccc tggactctag gtcttgcatc tattctccct tccttggtgt cttcctttgg
10981 acagagttag ttgcaaactc tttgtgtgca atgtgcaggg ttgttttgtc cccacgggtc
11041 aacttaggtt atcctgtgtc ctgtctaaca cctcagtggc ctctattttt ggttcagcat
11101 cttcctattt ggttttcagt agtcaactgaa agtgctggca aacagttaac agtgtcttta
11161 gtaggaatgg ttatctaagg gaccatacta ggtaaagggc tgagatactt catatacata
11221 gcataccctg actgctgtaa agatagaaaa acagactgag atgccctaca cagtctgtgt
11281 ctgtataagc tacacacttt ctgtaatggc caacatcaat ttatctttat cccatagagg
11341 gcctggcttg gagcatgtgt tccagggaact gaatcatttg aggtaggagt gaatactttt
11401 ctttctatcc tcttgcatc ttccagtaaa attaaagctt atcgctatca tgtatgttcc
11461 caagcaatgt ttaattatct gtaaaaagct ttgtatctga gactgcatgg attacagatg
11521 ggaaaggaaa aaaaagtgtt tatttccaca gtgtctcact tccaagaatg gggtgagcta
11581 ttgacaaaac atcacacgaa gacatttttt tttaaagatt tatttattta ttatatgtaa
11641 gtacactgta gttgtcttca gatacaccag aatagggcat cagatctcat tacgggtggt
11701 tgtgagccac catgtggttg ctgggatttg aacttcggac cttcggaaga gcagtcgggt
11761 gctcttacct actgagccat ctaccagccc ccgacattat tttttttgtt gcagccactc
11821 ataaatggga gaagaatgtt gaaaggaaaa gaaaatgtag gggctggaga gatgggtcca
11881 tgggttaatag cactgactgc tcttaccgag gtcctgagtt caattcccag caaccacatg
11941 gtggttcaca accatctgtt acaggatctg atgccctcct ctggtgtgtc tgaacacagc
12001 aagtgtgtgc tcacataaaa taaataaatc ttaaaataga aaaaagaaaa gaaaatgcag
12061 aaaaataata tgaagtctaa aagttcacag cgaaagaggc attttctgca aagttcccaa

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FIGURE 6E

12121	gcaagtgact	ccatgctggt	tgttgatcag	cattgtgagc	cctcgtgttt	aacattgagc
12181	taccccatat	tccacaagcc	caacgctcct	tcagtgcacat	atgcagcagc	tgcatcatca
12241	ttgcccata	tctagattct	aagctctagg	tgtggtggtt	tgaataagga	tggctcccat
12301	agactcatgc	cagggaaatg	cattaggagc	tgtggcctcg	tgggaggaag	tatgtcactg
12361	aggggtggct	aataatatag	aagttagtac	caaggactgg	ggtttttgct	gccctaggct
12421	ggaccaagtt	tcttggtgga	atgtggactt	tggattagga	aaatagttga	atggttcaag
12481	tagagcatca	caggccatcc	tggttaagacc	atggaagatg	gtgctggttg	tgacatgaat
12541	tatgggggtac	acaggtttta	gaggagaaga	attgtaggcc	tagatttttc	aaaccctact
12601	tttaataaag	gttcttaaac	gctttatcct	ctcttctagc	ccaccaccca	ccagagggag
12661	tggaaaggaa	aggttaatat	agcaaaggag	ggtgtggatc	tgtttagaaa	aagttctttg
12721	gagcaaattc	aatctgtggt	accaggatat	cagcagtaca	gttcactcag	aacagcagca
12781	gcagctcgat	ccacttgcaa	acaccattca	tgaatcagca	atggcagggtc	aatccagaag
12841	aaacctcgag	gctctgcaa	gtacaaggaa	gcagcagcaa	gaagctgcca	gaaagaacac
12901	caccagaagt	tcttttgtgg	catttctgtc	tatgaagtca	tatcaaata	tgactagcaa
12961	agaatggcaa	ggcaagggtc	tggtgagatg	gcttagcagg	taagagcact	gactgtctct
13021	cccaaggtac	tgagttcaaa	tcccagcaac	cacatgggtg	cttacaacca	tcgtaatgag
13081	atctgatgcc	ctcttctggt	gtgtctcaag	tcaactacag	tgtacttatg	tataataata
13141	ataaataaat	taaaaaaaa	aagaatggca	aaccaaacca	tacagcttca	tcagcgaaga
13201	ccagtgtcag	caaaacccaa	tgataaccag	caaataatata	tatcctttcc	aaacatcaca
13261	ttcttgttct	ctcaagtgtc	agcttttagc	aaacatcaca	tgccctttgc	ctagactgct
13321	tctagaaaac	caccgtgtat	ctgttctcag	caaaacatcc	tcccacatgt	ctgcttcagc
13381	aaaaacatcc	tctcataaga	cagtttccag	aaaaacatca	catgacatga	ctgcatctcc
13441	aaagaagcca	gaaatttcca	attcaaagag	tactagtatg	caacctagag	accattcttg
13501	tgatattttg	acaaagatca	tgggtacatt	ctgctcttgt	catgcacaca	gacacacaaa
13561	tctgcctgag	gttaaataga	agagttatga	atgaacatct	ttagaagatt	tgtctctaag
13621	agattttccaa	aaagtttagt	attgactttg	ttgcttgggt	attagtgtacc	atacttatgc
13681	agatctgtaa	cgaagaggac	caagctaaac	aaggaacata	cagaatgtac	agtttgagga
13741	gaaaaggagc	ccaggggaag	gtaatggagt	caagtccagt	gcttgaggag	ataaacctga
13801	tgttaaattg	aaaggagaag	tggtgacctc	aagccaggac	tccacctagc	taagcttcca
13861	acttctgaga	agtaatcaaa	gaaaagttta	gaactgggtg	tagctgaatt	accttgaatg
13921	ttagcagcac	tcatgagaca	gaggcagcag	gcaggtcact	gagttcaagg	ccagcctggt
13981	gtacagatgg	ggttccagga	cagccaagct	taggcagtga	aggaaaccac	tgaaaacaga
14041	aagctgggtga	agatggattt	gaatgaagag	gcacattcca	ggcccagcag	cagcagaact
14101	tggttagcttt	ggccatattg	ctctggcttt	agagtggagg	gtacaaaaaa	aagagttatg
14161	gaatctccct	ccgtgactaa	ggaaagctga	tggggccagg	tgtgtgtcag	ggatgtttct
14221	gcatggagac	ccagagacct	ttgcttaaa	ttgtgcaggt	aaaaacctgg	attgttgtga
14281	tagtttgaat	gcttggccac	agggagtggc	actattggga	ggtgtggcct	tattgaacga
14341	agcgtggcct	tggttagagga	agtgtgtcac	tgtggaggca	ggactttgaa	gtcatatatg
14401	ctcaagctct	gttcagtgtg	acatacatte	tccttctgat	gcctccagat	caatatgtaa

FIGURE 6F

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14461 aactctcagc tcctccagca caatgtctcc ttggatgctg ccacccctcc cgccatgatg
14521 ataatggagt gaacctctga aactgtaagt cagccccaat taaatgttat gagttgccat
14581 ggcatgggtg tctattcaca gtgatggaaa acctaactca gacgattgcc ccagaaagcc
14641 cccaagatgt tggatatgcc agagtcattg gatttgtgaa gagggatgct gttaacaggg
14701 agtggaaactg gcccaagaga aataactgtg ttgcagtcaa caaagttgaa aagagttgga
14761 gatctgaaga ctgctttgac atcaggcacg gagatgcaga gtttggagtt tacacagctg
14821 ttttttggtc ttgcttttgt ccagtatttc ccctttcctc ccttttggga tggatagata
14881 tatcctgtat atgttggaag tatgtgatct tgattttgat tttattccag atcatagtta
14941 agagcttgcc ataagtctta gaacagactt tggactttta agcagggtta agactgatag
15001 actatggaga cttttgaggt aggattgagt gcatttctgg attatgataa agctacaagt
15061 ctgtggggac tgggatgtag aatgtggtgg ctgaaaaaag aatggccccc acagacacat
15121 acttgaatgt ttaaggggta tcattagaag gtgtggcctt gttggagtag gtgtggcctt
15181 attagaggaa gtatattatt gggtttgggg ggtggtgagc tttgggtttt gtctttgtgt
15241 atgcctgtat gaggaggtca gatcttttga gactggagtt acaggcaatt gtaagctgcc
15301 atatgggtac tgggaattga acccagggtc tctggaaaag cagccagttc tcttaaccac
15361 tgagccatct cttcagtcctc gttccaatga atttttgaga agcttttcta gaagtgcctg
15421 aacccagaga gacaataaaa acagttgttc tcaacctgtg agttgagaca cctttggggg
15481 ttgcatatca gatatttatt tacattgatt cacaacaatt gtaaaacttt cagttttgaa
15541 gtcgcaatga aataatttta tggttggggg tgtcattaca acatgaagaa ctgtattaaa
15601 gggtcacagc attaggcagg ttgagaatca ctgcaacaaa agaagaattt tgtgccaggt
15661 ggtagtgcca tgtgtcttta atcccagcac tcaggaggca gaggcaggca gatctctgag
15721 ttcgaggcca gcctggtctt tagagtgagt tccaggacag ccaaggctat acagagaaac
15781 cttgtctcaa aaacaaaaca aaacaaaaca acaaaaataa ggtattttgta aaacataccc
15841 tagatccgtt gtgctaagac ataacagcat tccaaatata catagcccaa gtagccaagg
15901 ggtagagct cttatcagct ttgatgagct tgatataagg ggaatttccc tttatcccca
15961 aagatgaagt ggtcttaacc ttcttgcatt ctgtttgctt gttagttaat aggtttattt
16021 ttattttatg tatgtgtgtg ttttgctga atatatgctg tgtaccttaa gtgtacttag
16081 tacatgagga gtccagaaga gggcgccaca tcccacagaa ctggagttac agatggttgt
16141 gagctgctgt gtgggtgcta ggaatcaaac ctgggtcctc cagtgtctct aactgatgag
16201 ccactctctc agccccttcc atgattcttt aaaaagcagt catagtgaag agagtacaag
16261 gttgtgcatt aggacagtaa caccaccaat ccatttctgt aacaagtcag agtaagatga
16321 cagatctttc aaagggacac cagcaactgt ctgggcccct cctgtaggtc ccctaaact
16381 tcaactttagt ctggagaaat tccagggtct tcagattact ccagagagct agaaagagaa
16441 gcttttcttg tctcgttttc cgtttgtgtt tataacataa acttttattt atttatttat
16501 ttattttatt atttatttat tatatgtaag tacactgtag ctgtcttcag acactccaga
16561 agagggagtc agatctcggt acggatggtt gggagccacc atgtggttgc tgggatttga
16621 actcgggacc tttggaagag cagtcagggt ctcttaccce ctgagccatc tcaccagccc
16681 tataacataa acttttaatt tcaactggaa gacattcaag cagaggtccc aagttctatc
16741 actcagaaca catatacaga tctggacata ttgacatgca catgaaatgc aatggagata
16801 gagagacaga aggatccctg gtacttgctg gccaccacga ctggtagaac cagcaggctc

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FIGURE 6G

16861	caggtagctt	cccaaccatt	tetccatctt	tgggtccatt	gttgccctgtc	tgaatatctt
16921	tgcagatagt	tttttagaggg	gaaatacagc	aagtaagcag	aatgggtgcag	ggtagagcct
16981	gcacctggaa	agtggagaaa	catcctagag	agacacagcc	ttgcaaggct	ggtccagggg
17041	gtgggcagtg	tacagctgtg	actgcagatg	tcagcacaga	tgctgggtac	ctgattcatg
17101	gcaaccacag	gttgggaggg	cccctacaga	tgttggagcc	ccaggtctga	caatcccagt
17161	ggggtgattt	gtgacgtttg	taataagatc	agatgtgagg	gtagagggtga	gagagagggc
17221	ccaggtagcc	ttctagacct	gtctttggaa	tctgagttca	gactggacat	tttgggggct
17281	catttccaga	gtcactctcc	tgtgctctgc	tcccatattc	atgagaagag	cactcccatg
17341	ctggcagaac	atgaggccca	ggaagaagac	atggggctct	ccataactca	accccagaga
17401	cctagtgcc	agcaattatt	gctcatagca	gccaaaaaca	tgtaagaaac	tgccccattc
17461	tggcgaaaga	gtaagatgca	tttgactgtg	actgtcacc	attgtcagga	ggccaaagca
17521	tttcttttagc	agctcctcga	gtcaatgaaa	tactgagtgt	actgaggacg	agggcagctg
17581	atgtcctttc	tcactctgtg	tctcagtga	cagaggtcaa	ccaggatcca	aaaagcagta
17641	ttatgtggaa	actcccagaa	agaaaccaga	aaggagtttg	atggtcacga	gactggacac
17701	actgccagag	tcgctgtggc	agcgtcagca	aaagttttca	agtgacttcc	acggaagcat
17761	atttacgacg	acgtacagaa	gaagggcagc	tacttaacag	atgcccacct	accttttaga
17821	acagctaata	agtcacagat	gactgcggta	ctcccagaac	agaggggcct	tagtagtcag
17881	gcctcacaca	ggaggcagga	agaaaagcat	gcaggaatca	aaccatagcc	taaagtataa
17941	gatgaacatc	caggagccta	aaccactcta	aagaaaatta	catagatcct	ctatgtaaat
18001	taaggagcag	gagagtgagc	tttaagttgt	ttctgcagg	gcataaatta	tgcaggcact
18061	tcaggcccta	tggagaactt	aaccctcctc	ctcagatgct	ggctgcacgc	ggacttcctg
18121	ccacaggacc	cctgctatga	agtgagtgca	ggaaagaacg	ttttatagt	aagatgcctg
18181	agagacttcc	aggccagggt	atccaagtca	acacctacag	tgacaagtct	tgttgatggt
18241	ttgtaccctt	gaaatattat	catgagaagg	gcactctatg	cctctagagt	cttctgcccc
18301	caaccctaaa	gccagtcctg	atctgagacg	agaaggagac	agattccagg	gaaggcacac
18361	gctctacagt	gtctggccag	tgttccatag	aaccggcaaa	gtcattaaac	acaagaaaga
18421	actgtaggag	atggaacaat	gtgttgtgat	gacctagatg	gaccttaaa	gactgctctg
18481	tgtgtgtgtg	taactaagga	acctgggtaa	acgatgcgg	ccttaccact	cttctatcca
18541	ttaaaatggt	tatcatgtct	cttcgtgggt	gtgcacgcct	tttaatccca	gcactcagga
18601	agcagagaca	agaggatctc	tgagtttgag	gccagcctgg	tctctagagt	tcagggtctac
18661	acagaaaagac	cctgccttga	aaccaacca	ccaaccaacc	aaccaatgaa	ccaccataa
18721	cccacagatt	tttgttgggt	gtgcttttgt	tggaaacctcc	ctctcttttc	tcagttttaa
18781	gactccagaa	ccgaagtgag	aacagctggg	catgttactg	tgtgcttggg	atcccagcaa
18841	tggggaagag	gagacaagac	tttcttgga	cttattggta	agctagccta	acttacccta
18901	ggtgagctcc	gggccagtga	gagactctgt	attaaaaaaa	aaaaaagtgg	atgttaaaag
18961	acacctaaag	ttgtcctctg	gcctccacat	gcatgtacag	acatatgcac	acatgtgtgt
19021	gcacacatga	ctgtttcctc	ttgtttatca	cctgtcctta	tgatttgaga	gaactgtagt
19081	aggctttcag	atacagaagt	ggattggctt	ggttaaaaat	cttagttcca	ctactggcct
19141	gtgtaaaaaga	tggggaatct	ctgctgagct	aagccatgca	ctatgagaac	agtctctctc
19201	caggccagac	ctctacaaaa	aaaatcccaa	caacaacaac	aacaacacca	ccaccaacaa

FIGURE 6H

19261	caccttttgc	ggaaggtggt	ggtaaaggcc	ctagttttaa	aatgggtgta	catatacaca
19321	ccatgaagtt	cagagagtcc	attcgcaaca	ttatttgacc	ttcagcacga	tttgtttctg
19381	gaactttccc	acccattctt	tgcctcgttc	ccccaggtcc	tggtgactgt	tattattttg
19441	tatccatact	gttgacacag	aagtgtctag	aactttctga	atctgcagaa	cagactcgct
19501	actgatttaa	ccatggcctc	ccctccccc	cccttcccct	ccccttggct	tctgctgacc
19561	accactctac	ttcccatctc	ttcctcgttg	gctgttagct	acttagtgga	agtggaaacca
19621	tattgacttt	tgtgactggc	ttacttggct	tagtataatg	ttttcaaggt	tcaacctatgt
19681	cattgagtgc	accagtacat	tcctaaaacc	ctggcactca	ggaggctaag	gtaggggaac
19741	ccagaccaat	ggtttttcaac	cttccctcgtg	ttgcggtgac	ccccacaacc	atattttctgt
19801	tcttacttca	tagcagtaat	tttgctaata	ctatggatca	tagtacaat	atttttggag
19861	atagaggttt	gccaaagggg	gtctcaatcc	acaggttaag	aacttctgat	ttagactttt
19921	agttcaggcc	aaattacaca	gtgagagcct	atctctttca	tttcctaatt	tgaagaaag
19981	aaagagggag	ggagggaggg	agggaggggg	ggggaaggga	gggaggggaag	ggagggaggg
20041	aagggaaggga	gggaagggag	ggaggggaagg	gagagagaga	gagagaaaga	gagagagaga
20101	gaaagaaaaga	gagaaagaaa	gggagaaaaga	gagaaaaggc	taggcgtgat	gcagctcact
20161	gcagctctgt	gagacgcagg	caggtccatg	gtcttcccac	ttcagccgcc	tagtgaattt
20221	gaggccagcc	tgagagataa	gagaccctgc	ctttaaaaaa	caaaatagac	aatcagctta
20281	gtgggtaaaa	gtgtttgtga	ccaaagctgc	caacctgtgc	tggatcccca	gaaccacat
20341	ggtggaagga	gaaaaccagt	tcctgcaagc	cctccacgtt	gtgagccatg	gcagtcaggc
20401	atcctcagac	agacagacag	acagacaaaa	tgaataagta	cattaacatg	tttaaattaa
20461	aaaatggaag	gggcagaaaag	gggaaggaag	cagatggggg	cttttgtttc	tttgttttgt
20521	gtgtgtgtat	ttatgtatat	atgtgtgtat	atgtatgtat	gtatgcatgt	atatatgtat
20581	gtattagaga	caaggtttct	ctgtgtagct	ctgactgtcc	tgaacttgc	tctagggatg
20641	aaatgcatgc	acccccctcc	cccagctgaa	actgacagtc	tgattcccta	ttgtgcttgt
20701	gtttcttacc	agttcatcct	ctgctggaca	cttggatggc	atcttctatg	ccactgtgaa
20761	cagagctgca	agctttcatt	ttgggggtat	atactcagaa	gtgggggtac	tgggtcatat
20821	gaccagtcag	agattgttta	gtaactacca	agttctctac	atatttagaa	atactatttc
20881	ttcttctttc	ttctttcttc	tttcttcttt	cttccctctt	cttcttcttc	ctcctcctcc
20941	tcctccttct	tccttccttc	cttccctctt	tccttctctc	cttcttcttc	ttcttctttt
21001	tcttttcttt	cttcttcttc	ttcttctttt	cttcttcttc	ttctccttcc	tttctccttc
21061	ctctcttctt	cttcttcttc	cttctccttc	ttcttctttt	cttcttcttc	cttcttcttc
21121	cctcctcctt	cttcttcttc	ttcttcttct	ttcttcttct	cttcttcttc	ttcttcttct
21181	tcttcttctt	cttcttcttc	ttcttcttct	ttcttcttct	cttcttcttc	ttcttcttct
21241	ttctcctcct	cctcctcctc	ctcctcctcc	ctcctccttc	tttaagcttt	atgtgtacag
21301	gtgttttgtc	tacatgtata	tcttgacac	cagaaaaagg	cactggattc	catgggacta
21361	cagttacaga	cttgggaggc	atgggggtgc	tgggtcttga	actcaggtcc	tctggaagaa
21421	cagtgtctct	aaccactgag	ttaaactctc	ggctccaata	tttcatctct	ctctctctct
21481	ctctctctct	ctctctctct	ctctctctcc	ctctcctctc	ctcctccttc	tcctctctcc
21541	cttctctctc	ttctttttta	ttttttat	ttctacttat	tttcaatagc	agccacctcc

FIGURE 6I

21601	acagatacaa	agttctctga	ataggccata	aaaatctgag	cttactcttg	agtaatatgt
21661	ggtgaatgga	cggcagagca	tggccttctg	tcttgcttgg	tcctcacaca	ggacacaggt
21721	cctcagacag	gcccaggacc	ctagagctcc	tttgggggag	gggacacagt	ggtgctatga
21781	aagcctgtct	tcttctactt	actctcagtt	cattataaag	catttcaacc	tgtaaatggg
21841	ttccagggtc	atactattct	gccttaatta	aactaatccc	cacattatga	tcaagaaatc
21901	ccataaaaaat	gatctgtaac	aacatcacac	ataggagata	aatgaatta	atgtgaatca
21961	cacggaaatg	aggaatgaca	attcctgtga	ccctcccaga	ggcccttatc	aaccatagga
22021	aaaaaaaaaag	agctgacatg	ttgatccaaa	tagaggaaaag	aattaggaaa	agcagttaag
22081	gaaagaaaga	ggcccttaca	gatttacatc	tgcccagataa	agccactcc	aaagcaggag
22141	tcttgcatga	gtgccatgta	ccctaactac	agagcagcag	gggagagatg	ctgaagtgtg
22201	cactgtgccc	tgtgtcatcc	agtcagtggg	caggcatgcc	acgtcaaaca	tttttattaa
22261	cggggcacat	gatcagaaat	atgtggagac	agtgactgga	tagagagtcc	ctgtcattca
22321	tcctggatct	tccaggcaag	actgacacat	cagtttgga	gaatcacata	acagatactg
22381	gaagagggcg	ctggcaagca	gcctatgtgg	aggatagaac	ttgacagcac	tcaggcagag
22441	tcacctttaa	ccaacacctc	aggatttctt	cccaagctcc	cctctgtatc	tcttttgacg
22501	ctgcttcctg	aaatgtcttc	cctctaattg	tgtccctgtg	gactttgggt	gtcccctgtg
22561	taggatgggt	ttggatatcga	ctgttctcga	ggctgcgggg	aggagatact	tagcagagtgtg
22621	ccaagagtcc	tccaggggca	gcctcggatg	atgaccggac	tattcattaa	ctcagaaaaa
22681	aatggtgcct	ggaagcatct	taccaagtgt	agttgttctg	cgctcagggt	atgctcgggg
22741	tatgtagtgt	ttctgctggg	atgcttccct	tctcagagga	gttcagttct	catggtcttt
22801	gtaacgtcag	tgttacattg	ttttaatggc	tacatcattg	ccaccaatgg	ctagcctctc
22861	ctctgtctac	cagccctttc	ctttctcttc	ttcagtgtctg	ggctggaacc	caagactttg
22921	ctcatgctag	actaggcaag	ctactcagcc	ccagccttgt	tcatggcact	gagtgtcttc
22981	atatgcccgg	tgagctctcc	caggctctggc	tttcatttgt	ctcttcacaa	gcctggatgg
23041	tgttggatac	ctgatggccc	ccgggtctct	tctctccctt	cagggcaagg	ggaacatgtg
23101	atctctctct	ctctctctct	ctctctctct	ctctctctct	ctctccctct	ccctctccct
23161	ctccctctcc	ctctccctct	ccctctctca	ttgttactcc	tgcttgtgga	gccaaagcaa
23221	gaaaatgacc	actgaacagt	gaccacgtga	caagttgggg	aaagataagt	agaaaagggg
23281	gcgagaagag	gggaagggaa	ggagaggtaa	gaactatgca	aagaaaggaa	gaaaagggaag
23341	agaaagggga	gggggagaga	aaggaagcag	ggaggaggac	ctctgtacac	ctccaaacta
23401	acccttcaag	atccaaagag	catcttcttc	cctgtggccc	tccagcggcc	cggccttgct
23461	caactctcac	agcaaccctg	agcggagtgc	ttgggtctgc	attgcaccgg	tggggaagcc
23521	gaggcctggg	aggttccaac	ctttgtctag	aagcacctca	tctcccgaga	agatcagcac
23581	tgacagagag	gtcaccacc	tgccctctgag	ggccacctcc	ccagagccca	gagaaggatc
23641	ttacctggga	tctgtgggag	gccatctaac	ccagaaggca	tgggggtgcc	tggaaatgcc
23701	aggaaaggaa	gtcaggaaca	gctcaggcag	aaatgaaggc	acaaaatggg	ccccacattc
23761	ctggctgaac	tgggatcaag	agtgagcaca	agcttctaag	atctcagggt	ttcttctctc
23821	caacctatct	gctacttggc	ctggaaggag	gatgccca	gccttccctg	cctcacctag
23881	ccttccatca	cctccttgcc	cctctcctct	cttcccttcc	ttctgtcttt	cctttccctc
23941	cacccccctcc	ttttctttct	cattcctccc	ttctttcatt	ttcctctacc	cttctctctt

FIGURE 6J

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24001 ccttttcttgt ccccccctccc aacaacaaca acaaatccat ggcttttgtt tctaaaatta
24061 tatccgcaca ataacctctc tgccaattcc aggcacacag agccaatgga ccagctccct
24121 ttggataatt caaattgacc ccaagatagc cctaccccac ttgtacctcc tccctttgtt
24181 taagagggtt ctctaagctc tttgtttcct gaccgaaatc cttccatggc ttcctattat
24241 cccagagaag tccacacctg actaagcatt ccaccacagc tctgcagcct tctcaagttt
24301 caatcccat ccttcctggg gtggagtgtc cctgttgtac ctttggtaga gatgactagg
24361 gactcatcag attacaccag gacagttgat gtttggatta gcagcagggg tgtgaggcta
24421 gatgcttatt tgccttgttg catgcaggac acctgtcagc tgcggagaac ggctcgccat
24481 accaatttcc cgaagggcct cgggctcttg tgcttccttc tgctatgatg ctagcctcgg
24541 ctgctgccac gtgtgttccc agcctcctgc tctggcccat cttcatctgt ccacagacct
24601 cagtgttgca aacatggctt cttcagatat gtctccctag ggtgcccccg cttcaggaag
24661 tacggctgag agagccatgg ctctttgggt cctggtcact ttgagttcct ccataccagg
24721 agggatgggt tggagctcag agaagacctt gggcatacag tcttgggtgc ctttgtgtcc
24781 aggcaactaa ggcacctcac ccgctatatt ttgcaggaac tttctaagct gggcttaggg
24841 gtggacactg acatagaact tcgaactctg cagctgcctg tggattacag ggaggtaaaa
24901 cggaggctta ccacaatctg ggaagathtt caaccacaag taagtgatac ctggagaggg
24961 tgtgggtctg ggaacctgat gatgggccca gggcctagga actttctgga ccttgatcta
25021 gatttgaagg ctggagtaca cctgaattaa agcttctgtc gtgagattct gggctctgtg
25081 ataagtttat gctgaaacac gaggtagata gtaaaagatg actgggggca agtggggcgg
25141 acaaaatggg aatctggtat taaagccagg aggactctag gatagctcac acctatccta
25201 aaaaaagaga ggccctggat taagccctgt gtatggctaa ttctggctgt tctgaggaat
25261 ttaaggtaaa gcgctttggg cctaggaagg tctgatgatg attcaccagc ggttgggtcca
25321 ccttcaaaaac atcctgccag gggcctgggt tgatggctca cacttttaat cctggcacct
25381 gtgagtttaa ggccagcctg gtctagttta tgagttcaca gccccattcc aaactaacia
25441 aagtaactac atagtaactg aatataagca ctgtgtaaac aggggcacaa tgccagggtg
25501 ggtagctcac gcctttaatc ccagcacttg ggaggcagag gcaggtggat ttctgagttc
25561 aaggccagcc tgggtctacag agtgagttcc aggatagcca ggactacaca gagaaacctt
25621 gtcttaaaaa acaaaaaaca aaaaaaccaa aaaaacaaaa caaaacaaaa aaaggacact
25681 gaccaaacac tgcagcaaaa tcctctgcaa ctgttttcaa aagaggacaa ataaagtcta
25741 ataagattcg attagactgt tgctagcttc ctttatgaaa gtttcattaa atacaggatc
25801 ctgttaaaaag ccagcatctc ccagggtcat cttggatact tgctttcccc caactcctgg
25861 ggggaaagag agcacacaac ctcgatgatg ccatttgaaa tacaaaagtc ctttttaatc
25921 cagaaaaaat ggggaaaagt ccttaaattg agatgtagca tgcctaattc aacccaaaga
25981 tgtgttcctt ttgtatcagc accattactt aggggcctaa gcagggtccc tggaggactt
26041 ggagctagat ctgttttagcg gggctctgtc atcactggac ctctcttcac atctagtgat
26101 ctggtgtctg tcctgggatt tctgatatgt atgtccctac agcttgttgt gcatgtgggc
26161 atggactctt ctgccaaggc catctttctg gaacagtgtg gtaagaaccg aggtatcggg
26221 gattcagatg taagaggctt ccagccggag gatggagtgt gcctccccgg tggccccgaa
26281 gtgaggctgt ctgttgtcaa catgaaggag gtctgccggc gtgtggctgt tgagaatgtc
26341 gaagtggcct tttcccagaa tgcgggcagg tacttcagga ctccgtgtgc caagtgccaa

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FIGURE 6K

26401	acagatggga	gagaggggatt	atccttcaga	gtcccttctc	tctcctcaag	aggctatcct
26461	atgttggtcca	tgtggctgct	ttgggtcacag	gcacccctatt	tgtcacaggc	actgcagatt
26521	aattttaacct	cttctccaaa	cgctgacagc	ccctccccct	aagcaccttt	cctctcttct
26581	agggataaag	aaatacccgga	ggggagttgg	cagtaaggga	gtcattgtgg	tgaagggtgc
26641	ttaccactag	ttgtttgaaa	ggccgggtca	attctgtcat	gaccgcttgc	tgggtcattag
26701	actctgagcc	caagaaccaa	tgtctgtctg	gagtgttctt	aggccatgtc	ctttctctat
26761	cagaagagcc	aaactcaagt	ggtactaggc	atgtgggcat	ccataaactc	atgcttcatg
26821	aaacctgtac	ttactgtgtc	tggcatcgac	aagatctggg	agtaatgggg	agtttcatgt
26881	ggttgccaggt	acatctgcga	ttacacctac	tacctgtctc	tgcaccttgg	gactgggcat
26941	gcggctctca	tccatgtccc	tctctgtctg	cactggctct	cggccagcct	tctgggcaaa
27001	gccttgcgag	tcacatcca	agaaatgctg	gaagaaatcg	ggaaagtcca	gactcaaagt
27061	acagcagctt	aagggaagca	gcagggggat	gccttcctta	gatgaaatgg	agtgtttcag
27121	gcttggtgacgg	agaagccagc	tgtgctatga	gaggctctaa	aaaagggaaa	cagttacaag
27181	gctgggggtg	gggggtggggg	tgggggtgtg	gactcacaga	atcacaatct	tacttttagtg
27241	tctaaagcaa	gaagaaaatc	cccaaaggcg	gatgcttcat	aaaggattaa	ctaggggaag
27301	ttatgacctt	tgtaactcca	aagagccacc	aaaacctagt	gtcaagacca	aatgaactga
27361	ataactctca	agtgttcttt	gaaaaagatt	ttatttattt	gtttgtttgt	ttgtttgttt
27421	atttattata	caatgttctc	cctgcatgta	tgctgcatg	ccagcccagg	gcaccagatc
27481	tgattataaa	tggttatgaa	ccaccatgtg	gttgctggga	atcgaactca	ggacctctta
27541	agctctcagt	catcttccct	gctttgtttt	gttttatttt	gagacagggt	ttctctgtgt
27601	agccccgcct	ggctgtcctg	gaactcacag	aaatctgccg	gattctgcaa	gaaaatgact
27661	ttacaagatt	tcctttgcaa	ataaaccaag	gacattttac	atatgacaga	gccaaagccac
27721	actaaggcag	atcaaagccc	aagggtggaag	ccgggctgtg	tggcacacac	ctttaatccc
27781	agcactcagg	aggcagaggc	aggcagattt	ctgagtcca	ggacagcctg	gtctacaaag
27841	tgagtgccag	gacagccagg	gctacacaga	gaaaccctgt	ctcgaaaaaa	acaaaaaaac
27901	aaacaaaaaa	agcccaaggt	ggactgggat	ggcacaggcc	accagcacag	aacctagctg
27961	cttggtggtg	gccttggtcg	gagaccctc	tctgtgagca	aagagctcct	gctccaaacc
28021	ttaggtccct	ttgttccagg	agtgggctct	agtgcactt	cagggtcactt	ggcacctggt
28081	cagacacatt	aaaagaaaac	gccgggcata	cgccttttaa	cccagcactt	gggaggcaga
28141	ggcaggtgga	ttcttgagct	caaggccagg	gctacacaga	gaaactctgt	ttcaaaaaac
28201	agaggcccag	acccaaccc	ccatgagcag	ctcttccacc	ccctctgctg	ctctccagtt
28261	tctcaagacc	ctaagcgccc	atttgcattg	tattttttgt	aaatagcttg	gcatcccccg
28321	acaatacaca	ctgcatcctg	ttcagtcaca	gctgatagtg	ggtggtttgt	atgcttgcca
28381	gccagtgtag	aacactgttt	ttttgtggtg	catttaaatgg	ttgggaggtc	tgaagcatgg
28441	ctctgtgttc	atctataaac	ccgactaata	aaaagtcctg	gttctgacta	ccagagaat
28501	gtgtcaccaa	caacacacca	gccaaaaaaa	ggaaagaaaa	aaaagaaaaa	ggtgtagtat
28561	gggccctcag	cttgtggctt	gaatatcttt	ttttgttttg	cttttttttt	ttgggggggg
28621	ggtgaggtgg	gtgggcagca	gtatattatg	aatctagcta	gtaagcaggt	gtttaaaaaa
28681	acgaataata	aattaattct	agaacgctcg	taataggtga	cttagctggg	caggggtggc

FIGURE 6L

28741	acatgccttt	aatgacaaaag	ctccgtagga	aggcaggtgg	ctctctaagc	tctaggacag
28801	cctgggtctac	agagcaagtt	ccagggtcagc	caggggtaca	cagagaaacg	atatttcaga
28861	aagattaaaa	aaaaaaaaagtg	tctcagactc	caaggagagc	acctaactta	aaaaaaaaaa
28921	gacttaatttt	tatgtgtatt	agtgtaaagg	tatctcacc	ttagatctgg	atcccttgga
28981	actggagtta	caattgtaag	ctgccatgta	gggtgctgga	attgaaccct	ggctcttttg
29041	gagagcacac	gtgctcttaa	cctctgagca	atctctcgat	tcctaatagt	cttttaaagg
29101	tctagtacct	ggctggagag	atgggtcagt	gatttaagag	tgccgactgc	tcttccgaag
29161	atcccagagt	caccgagttc	aaatcccagc	agccacatgg	tgggtcacaa	ccatccgtaa
29221	gaaatctgat	gccctcttct	gggggtgtct	aagacagcta	cagtgtactt	acataataa
29281	aataaatctt	aaaaaaaaaa	aaaaaaaaaa	agtctagtac	cttcatcctt	aaaagcagct
29341	ggctccggcc	aggcaggttt	ttggtaaact	ggaggcatag	taccaatcca	ggatagcaca
29401	gaaataagac	cttcagcgtc	atctagttaa	gctccctggg	catctggtaa	acaaaacccc
29461	cggggcagga	cgagattgga	aggtgtgtct	ttccaacgac	cttttgacta	taaatccaaa
29521	taccatttgg	gttaggttac	tgggaggtct	actgggtctt	gagttgcctc	tgatttgctt
29581	ctgccaccta	tgtctcatcg	atcagttctt	caccgggtgt	cctgattttg	tcaatgagtt
29641	ccccatttct	cagtgttcag	tgaggcggct	acctactctc	ccaggagtct	agaatgtatg
29701	gcttggttga	ttttccaacc	caaaccattc	atcaccttcc	catggcaaag	atggagagcc
29761	agcatctcag	agttacctgt	gggcaacctc	acgactcagc	accttgagc	caggaaacagc
29821	ccgattttcc	ttgggttctc	ctccagcacc	ctcaggcacc	ccaactgtga	agcactacca
29881	aggacaggaa	aatgcacgca	gcacgcaagt	ttctggcaac	cccgccccac	ccccagactc
29941	acacatacca	aagccaccct	ggcctttttg	caacccaagg	tccagggggc	aagcctgtga
30001	agcagccctg	agacttgtgc	ttcatgcctc	ctgattttcc	tctagctgag	taagtggagg
30061	gaaagtagct	tcttcaaact	caacagcaat	ttgcatttgg	agaaacccgg	ctgtcagttc
30121	tcgtgctgag	cattcccag	tgacacacac	acacacacac	acacacacac	acacacacac
30181	acacacacac	acacgaggct	cagcttccc	gctgtcagtt	ctcgtgctga	gcattcctga
30241	gtgacacaca	cacacacaca	cacacacaca	cacgaggctt	agcttcccga	ggaagtgggg
30301	gatggttcca	gagtgaagag	gaaaccaact	gggagacaaa	ggtgcataca	gaattctttt
30361	atttaactta	atccatgtgg	tactttaact	actagaaaaa	agcagagtaa	tagactcaag
30421	tggccttagc	tttagccatt	caaaatagac	aaagtttctt	ttttcataat	gtaaagaatc
30481	ccgagtatgt	cgcagtaaca	ggaataaatt	cttacaacag	aatatacaaa	aacattgaat
30541	tttttttcat	ctactgattt	tctttttatat	ataaacagag	ggtttttttt	tttaggaata
30601	atttatacac	agaaagttat	tttatgtaac	aaattggcca	tattattatc	tttttttagac
30661	tttttttttc	tttttttaag	aaaaaattta	acaagaaaac	tcagaaatgc	attattggcg
30721	atgtgtccgc	tccatcgagc	cttttgactt	ttgttttggt	tttttaaate	ccagaggtag
30781	atgaactctg	gcaaaactct	tacttcaacc	tcactggcat	aggaagcaga	caggggttgt
30841	caccaggcag	gcacctactc	cacctgtaca	tgtgtctgca	cactgcccac	caccacaag
30901	aaactgaaag	accaaaccac	accacaaat	ggttcccaga	cctttttcct	gcagtgttag
30961	aaagtcccat	gtgttttcaa	caacgggtatc	ttgtggaacc	agagagacat	ggccaataat
31021	gcacgggggag	ccaaaggaca	tggatcttaa	tttgaaaaaa	gggggagcag	ggacacacat

FIGURE 6M

31081	tgtgggttttt	gttaccagtt	tgttctgtat	tagaaaacaa	tggaccttcg	gcgttcgcca
31141	ttagatacag	gtaggcacag	cattcgttag	gatctgaggc	acatgtgccc	acgggctgca
31201	catcagagtc	atgtgatcac	tgtgaagcca	ttccagtgtc	ctgaaaccct	cccattctcca
31261	tagtggttgca	gagctaggac	cagccatacc	agccagatgt	caccatggag	tgccattctct
31321	ttgctgggtg	gccacacact	gctatttcca	tggccagcag	ttctttccat	ctgtttgggc
31381	tgctacactc	cacagggaac	agtgaagtcc	agataattcc	tttccccagc	aaagggttcc
31441	aagatcaaga	tactgaagaa	tacagaagta	cttttttaaac	cactggcatt	ccttttgttt
31501	tgttttttatt	tttatctgtt	ttattttttt	ttgttttatt	tattttattat	ttattttttt
31561	acaaactaga	gcagaaagca	tgtgggaaag	aggggtgaacc	acaattgggtc	ctggggagaa
31621	tttctttttta	attaattttt	ttaagttttt	attttttatt	tttggcatat	tgtaaagcta
31681	gctagtaaac	aagtgtcaaa	aaagaaaaag	gaaacaaaga	gggggaaaaa	agaccacaaa
31741	cacataatttt	tgcacacaca	gagagaaaaa	aaaagtgttt	ttaaattatt	ttcggcaatt
31801	ataaaactaca	aacatttttat	aaaattattc	tatgttctta	caaaaatgca	atgaaacatt
31861	gaattagttc	ttgtaaacca	gagcttcgtc	aacgactacc	cgtaatctac	tggaactaga
31921	agccctattg	aaaggataat	gagtaattta	aagaatgggt	tactggaaag	atgcagacac
31981	aaatgtggac	acacaaatca	gtgattatga	agttctcaca	gaaaccaaaa	tcaaatcaat
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32161	gaaaccaa	gcccacagtt	gactccccag	cctccacatg	ctctgacacc	ttcagacacc
32221	atcaagtcca	aatatgggtcc	atgcttcttc	caggcccttt	aaccctctgt	cagcaattcc
32281	cgtcagtgtca	cgatgccggt	taccaaggggt	gcctactgca	ccgtcactct	gtcatcccat
32341	caaggaatgt	tcgtttctct	aaatcgccaa	ctggtcaccc	aagctggaag	cccaaagcaa
32401	agacccttg	cctgtccaag	gtctgtatct	tcagcatctc	tggcaagaga	ggttcaattt
32461	tacacagaca	tcctgtcttg	aagtctctcat	ttgtaccacc	acctagtcca	aagtggactg
32521	ttaaaagt	gaccatcatc	actgggtctt	aaggggtgga	tctctctggt	ccaggctctc
32581	caatgcagct	gcttagccca	ggaaatgaaa	agacatcaga	caaacataaa	agtaacatta
32641	aaaacaaaaa	ccaaagggaa	aaaaaaaaatc	ccaaaccgta	aattcattac	tgctaaaatg
32701	ggccaaagca	ttttgatgga	gtggctctgt	ctcctctctg	atgccagtgt	ttaggaaagg
32761	agatgctttc	agcactctgt	ggccactctc	agaggaccca	acgatgacaa	cagagggcct
32821	tgggtaagca	tcctagactc	ctcaccacaca	tgagctcagt	gtgaccttgc	caccactgct
32881	tgcttacctc	aggcacaggc	actgccaaaa	gaggtgggct	gctaaggccg	aggctccggg
32941	agctcaggct	ggcttaggac	ttggcatcat	acagagctca	tccatctgtc	agcccaccct
33001	aaaaactcct	gtataccact	ccgccatctg	ctcgtctcac	cgtgatcgct	tttctagt
33061	atgaagctgc	ttttcctacc	gttgaacagt	cccagatcat	aagaaacagg	caggtaggaa
33121	aaagagcaac	cttgaacagt	cttttatatc	tcaaggagg	agcctcatcc	catctctgaa
33181	tccaatgtta	ggacattcct	gaaaggagat	ggcgaagcgt	gggccccacc	cagctcaggt
33241	tcagctctat	ctccacgcct	caggaagggc	tgtgtggggg	cacacctgga	tggtcacgtc
33301	acctgcatgc	tgtgcctcag	tggttcagt	gacttcaagc	agtgtgagct	cctatcagaa
33361	ggggggggtg	ggtgggggtg	ggctcagagt	aaaaaggcca	cgactcagct	tggtaggagt

FIGURE 6N

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33421 acttgaagct tgtaaagaga aaaatcagga agaggcgggg aacatcagca tgagatcagg
33481 ctagaactgt ggatatgatg ccttgcaata gtcggggcgc gtcagtccag cagaacgact
33541 gcaccctcgt acaagccaac cttttctttt tattgaagtg tttctggagc attagtttat
33601 gacggccact acgctgttgg tgccgtctct ctacttaaag gaaaaaaaaa aataacaccc
33661 acgcaaaaac aaaacaccaa caactcggac agtttcaaaa ataataataa taaggaaaaa
33721 aaaaaaccct taaaatcaat tgaatgaact gtagaaatcc agttgtggaa aaccggcagg
33781 tatgtgcgag aggataggcc actatcccag agtgtcacct acagtgtaga agaaaaccct
33841 gatcaaacag tatctcccag tgaccctgtg agcatctagg aaccagaga agggcagcat
33901 tccagcagga ggcgaagggc tcttgagctt aaccgaactg ttaggcagtt tctccatact
33961 gggggaaaag attagccacc gcggtcccca gctgaagtcc ccagggcctg taagagcagc
34021 tgctggagtt gaggattgca ctgtccacct gtgagcagca gacggatggg tggacagagg
34081 cagagcacgg ggaaggctag gcgccaacca ctggccttcc agcctcaaga tttggtcagt
34141 ccttggttag ccctgggggt tgcggggggg gggggggaag ggagggaaga agagggaagg
34201 acagcagcct gcagggggca caggcttcgt cttgccccct tttttatact ggcccttctgt
34261 cagaagcaga agggggagct ccctgaccgc tgtacctcca agaggaacca atgccaggag
34321 agcaatgggt gcattgcccct gcctcggtgc aggtctcaga ggagcagctg agggggctga
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34441 cctgccctca aaacctggga gtacctgtct tcttagggat agaatttgtc agtcattcaa
34501 tctgtagaga aagttctgtt ccaaagtcag ccagctgagg atggggccggg gagccccctt
34561 ccactggcgt gctgtgctca tgggtgactgc tgggttgaaa agtaggggac cagggtagga
34621 gaaagaccag agttgcctta ggaaaagtgg gcttttggag acagagcagg aagaggctgc
34681 tcattttgagt tagcgttgct ttaacccag aatccagcct ggcccctctc tgcttcacct
34741 gggatatgtg cctgcggagt ggctgagggt accaggatca ttggcctact gtcagggtact
34801 gagaagtgtg agatgtatta tatatatata tatatatgtg atatataat atgcacacac
34861 acacatgaaa aacaagagtg aggtagataa atgtttgaaa aacaagcccc ccaaaaaaaa
34921 ccccccaaaa ctgtcccatc taatacacac atacacagag atacatgtac ctttctctca
34981 gcattttaa atcataacagg ggcttttctc cagtgtattaa aacagggtatc aaaaaataaa
35041 ttaaaactcc tacatgaaat accttcttaa taagcttccc ccctcctttt ccctttaagg
35101 gcagaggcta ggaagagcca caagcctgaa cctacagaca agccagacaa ctccagcttt
35161 ccttcctgca tctaattctcc agtcacaact gcaaccatca tcatccaaca gtttctctac
35221 tcctaattta aatatttcca cccagaagca tctctcgcg cgtcactgct ctggttaagaa
35281 gtgctaaatc gaaacaagac aggaccctc ccccaacccc actccagggg gaggggcctc
35341 caagcccaga gctccgggat tctgggttaag gaggaacagc aaggggctct agggccactg
35401 tagggtcagc tctactccac tttgggattt ccggcccggg agtgggcttt atagcacacc
35461 cactaaagtt gctgctcctg gccatgggga gttgggtgct tacatcttgc tccaggggag
35521 gccacccctt cagacaagct gggttctaaag acaggtgggc ctgcttgtga aggaggtggc
35581 agatgggcca ctggaccagc tctgctgcat cctggggact cagcagctat tgtgtgtgtg
35641 tgtgtgtgtg tgaaagatca aatattcatt taaataataa tccaatgact attgtctgca
35701 gttaaaactg ctattgtatt cccaaattgg ggtgtgtgtg tgtgtgtgtg tgtgtgtgtg

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FIGURE 60

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35761 tgtgtgtgtg tgtgaaccaa agcaaggaga gaaagcaaag tgtgactttc aacaacaggg
35821 actagaaaca ctaaaccagg atgtgtggga tttttaacct ttttgtttct gacctgagtt
35881 tgtggcatgc cttgccctgg agcagatgct gtgtgcgggg aagcaaggaa aggagagagt
35941 agggcccagg agtctgtggg ctctggactc ccaccctccc cactccctca cctgtgactg
36001 tgctcacaga gcctatgggt tagagggtaa tgaatggggc tgcaggagagc aggggaaggg
36061 agatgtatatt ataaaaaagg catcaaacag ttcacggcaa gttatgtcct agaagcatca
36121 gttgccggag aagaggaaga aaaaccacac tctagtataa agcagaggaa gtttcttggg
36181 gtgagcagaa aggaagaagg ggtagacctg aaagtttcat agattaaatc cacaaagata
36241 aagaacaaaa aaaaaatagc agcttttctt ttcctgtaca gatgtataga tgaatatctg
36301 aactgtaaaa aagttataaa actgacatta aagacgatgt gtatgcaaat gtttcacggg
36361 ctaacataga actgagagac ccatgaagaa gtcctagtaa cagaccatgt gaaagctcac
36421 actgcttggg tccactgcct gggcgggcgg ctccaggctg ctgtggctct gaatcccttc
36481 ctcgaacatc cataaccaac agccaggccg agtccccgga accctttcga gtgtgtggcc
36541 ctcaggggag gggcaggagg gaggtcgggg agggggacga ggctgggtgt aggaccacct
36601 tgaccacaaa cctgaccttc aagcttgccc atggccactt cctccagaat tcttgggggtg
36661 ctgtgggtgg gggaggggtg gagaaccagt tctgctttcc ccttcttcaa ggagggcgag
36721 ttccatcttg tccagttctc ccaaacggta accatgcaac gagaccagg agatgtgggc
36781 tgggagagcc gggcacagtg gggggcctca gcacgtgtct ctcaaagtgt atcatcaacc
36841 agacaccatg gttcatccca cgcctctgga caaagggaaa tcagcgcagg gagtatatgc
36901 gtgtgagaaa aaccaaaccg aaaacaggat tttggcaaaa atggcagcgt gaaaaatgat
36961 agccacggat gaacaatggc ctttttaaat tttggggtga ccctaaaaaa ggttaaaaaa
37021 aattccatct cagtgtgtga attttttttc tttttctttc cttttctttt ttttaaaaga
37081 cctacgggtg caggcagggt tatgccccgt gatgaggagc cccaggggca gccattaagt
37141 caatctgatt tttttttttt ttttaaaaaa gaaggcttcc cagatgggag ttcacaaaca
37201 tttttccact gtaaagcaga aaagagagaa aggagagcgt ggaagtggaa ggggagaggg
37261 cagagaggga aggcagagga gaaaaaaagg cagagaacga agagactcaa ttctcgagtg
37321 tcctgttgct attaatgtgt gtcattaagg tttgcagagg cccatgtcag ttaagggttc
37381 gggtaaagga aataaaaagc tgcttgcata ttgaaaaaag gaaggtccca aatgtgttta
37441 ctgcagagaa gccgtctccc gtgggcagca atggcagggtc tgaagatcca ctgaggtaca
37501 ggaggcttgt gaatagattg ttacaacctg ctctccccct cccgcccccc cgcccaccga
37561 gtgggcgcac acacgttact gttggcgcgt gcttcgggtg gtccgaggat cagcaggtcg
37621 aggactgggg cagaggcaag gccctctcgt tggcgcgtcc cccgttcatg tgagcgtaag
37681 gctgtctctc atcaaaactg gcgcggagaa cgagcacgcc agggcccggg ccattctcag
37741 ccttggtgtc tgagtgtctt tcaggcagag gcagggaggc tgaggaggcc gaaggggtcca
37801 gtgggacgct ctccatgttc tcaggctcca tctccagctc ctctggctcg ggaggcttgt
37861 tctcctcgct gtagtagaag gagacctcct ggaagctggg ctccatctca tccttgatgc
37921 tgccgatgat ctccaggaag gagggccgca tcttgggggt atactgccag cacatgcgca
37981 taagttcaaa cctaaggagg tgatggggaa gaaaggaatg agctgccaga gagaccaga
38041 agaactgtac cacctctgca ctctctgctt cccatctgga tgcctctggc atcctgccat
38101 gtatcttgcc cagaaccag gccagccac agtgccaagc ccagactcac ttcaagtctt

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FIGURE 6P

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38161 ggttcaccca ttccaccatg gacgggttgta ttaatgatag cactgctaag agataaaacc
38221 cacttcctgt ctaagcacct cttctggcca cacattaacc agaagaggaa acctctctct
38281 ctactaatg agaatacacag ctttcttgac aggcaccatt ctctgtatct cacaccaggg
38341 ctattttctaa gtttcttctt ggcaccaggg cgcccctggc agtgggcctg agggaggagg
38401 cggcaggggt gctagacaga cggagcacat atcccaagct tgctatctca cgccagcacc
38461 tgctactga ggatgtccca tgaaggaaga tccctgtctt gaagatgtag gatgccagg
38521 agcagagttc taatagaaac ttcaagtgg atgccaacga accaaggga gtcctaagca
38581 tcattttctt ctacaaacaa ggccaaggta aaaacagtat aaagcccatg acgtacctcc
38641 atcactccca caaggtcaca aacctttgca aagcttcttc gtcctcgaga gttacatggg
38701 ccagctggca cacaggacag aagagaaagg ctgctcatgc agccaccgtc ctgaccagca
38761 aaggcctggg agtagacagt ggaggagacc ctaagcaagt gaagggtgtg attgctgaca
38821 cgtgcaaggc catgtcaagg accccaatgc ccagtcacca tgggagtggc aaagtctacc
38881 ccagtgatgc ttgcttagag agatggtaaa gccttcccct gaggtccgag ttgcaagtgc
38941 tgacagtgtg tgcagaatat gtccactgtc acgtccttcc cctggaagt tacaacctca
39001 agacggcttc cctgcagaga tggctaaacc tgctccatg ttcagctgta tataataatc
39061 ctgcttctct gtttatctgc atgcagtaat ctgcctctct gttcaaatat atacgctaaa
39121 catactgagc ttccagagcc cagtccacgc agtccccgtt tctctatacc caagtgcaca
39181 ctctttgttc attcccttga tgccctcgtc aagtcatagt tctgcaaccc aggccatgca
39241 gtgaaccaca cctgggctct gacggatgga cagacacaca ggcccgacag aaaacaagga
39301 cagggtggtc atgattctga gggaaagggg tacctagcag ctctcaatca caggcgtgtg
39361 agaccaaaagc actctccacc tatgtctctc caggaaactg tgttttataa aaactcctgg
39421 ctcaacagac gctttacact aaaaccacaa aatggaagtt cgaacatata ggaatctcaa
39481 agcaccctga acaggcttct aacattctac caggctgatc actgggccac caggacactt
39541 cttttacaaag caaataatcc cacaggggta aaggcgtgtg aaagcaacct attggtaggc
39601 atgaagttgc ctgtgcagag aaagccactc ttgccatctt ggccagcttc cttggactct
39661 gtaggatcaa gtcaggccag gtggaaggta gttatcttaa aactgaaaaa aggtgcattg
39721 gagatccacc tccaagaatt aagcactctg gaggcccagg gtgaagccaa ccaattacag
39781 cggagccagg tgcagcttgg agcctgttgt tagcggaatt gtaccagagc agagctgggt
39841 acacagcacc tgtggctgtt tctaagctcc tttgtaggct gagtagttga gacagcggct
39901 gtttagctag gaaccttaca atatttactg cctactcctc tggaggtaaa gaaaaatccc
39961 aattaagtgg ccaatgtctc gacggaggaa aacaaactgg accaaagacc aggctaacta
40021 ggtattctca ctggctctaa gtgactggtc ctagtggcac atgacagggt gcaggtaggt
40081 actaaaagct ctaggcccg ggtcacgctc agtccccgag agccagagat gtctctttac
40141 tccaatgatt acaacacatc ctcatgtgat gcataaggga aaagcaccia ccacagcatt
40201 tgatcatttg tctgaagtca cacaggaggt gagctggaac ggctgtaggc tgtcagacaa
40261 tgcagcttta ctgtaagtaa ccatggtctt gctagcagac ggctgtctcc cgactgtcta
40321 cagacagtca gatctcctga gccggcttgc tctggtttagc tgctgcagaa gcttgttctc
40381 cccggctccc atcatttccc gaaggattaa tcggaatggg aagcagacac aaggagctta
40441 gctccgtggc caggctgcaa tttctctctt ggctgacagg cctagccctg aatagaaaag

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FIGURE 6Q

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40501 tgcaaccggg ggcaagaaca tgagatgtgt ctggccccaa gccccgtggc caggggtggg
40561 ggggtggggct gaggaggtgc cacgggcagg gtagggatga ggtgacatca gtaaaaacaa
40621 gccatgtgat gcctctttta aatcatccca gagtcagccc ttccagggct gcccataaaa
40681 ggaagtcttt tttgctctgt gcgatttaag accttgtttt ttttttgttt tgtttttttt
40741 aaatactctt tccacaagaa aactctccag tagactctgg gattaataag ctgataaaat
40801 gctccctcta aaaagcacac tttaaaacca ctggacagct ctgatgagct ggagccgcga
40861 ttacagaat atgtccctct gtgaagggtgc acacctatcc ctctagaagt gagtgtctatc
40921 ctgggggtgta cggccaccgc tatgcccatt cctcacttgg cttctgagcc cccaagcaca
40981 ccccggtgtct tcagctggac aggctgccat ctatgtgagg cactggcaaa ctgaaatatg
41041 cccaggacct catgtatata gtaccctctg tgccgcctgt tagtactgta ccaggtagta
41101 gtgactctta gcagggatca gactttcaga agggcctacg ggactgagtg ggtcctcctc
41161 tagcatctca agcaactaag gttgttttag ggccaggacc tagacgggga tgctatatag
41221 cccagttgct ggcacacagt cgatgccagg gaccgtccag cagacactgt cacctgcctg
41281 tgatgactct attcaattta tctcgacaaa accagactgg gattcccagc ctcttggggg
41341 tggagaggaa aagtacagaa gtagtcatat tggactgagt atgtctcagc tgcatctgag
41401 ctggtgacgc tcggctagta aaacgttcaa gttccttcct gaatcccgca tccgaagac
41461 ttggcatgtg agctctggag atgttaatgg atcaaatgga tcaattctgt ggctgagctt
41521 acatcgctcg cccattctgc agcacgaggg ctggaacctg tttcaggatc tccaggttcc
41581 gtgaactctg ggactggccc ctgacctcag cagggttcac tgacaaatct gtgtccaaag
41641 ccctgaaaacc caggggtaaa gatgggaatg ataggctccc ctgaccagc ctcacagaat
41701 ttgctagatc aattcaaact gagctattgc actgacagtc agacctggat accctgggtg
41761 ttggtggcag ctttctctct aaagctagaa cactttgtaa tacacaaggc tggatactta
41821 gctactcctg aagcagactg gttcatgtgt agggacgacg agaccaaagc atggccagag
41881 aaagggctgt tcctgcctca gaaccacacc atggaagtcc ttctctacg tgtgagacc
41941 aacaggcttc agactactcc caagagtgtt tgcttactgt gccaaaaaaa aaaaaaaaaa
42001 atcctttcac agaacacatc ttcctctcat cagcgtctca gccaaatcag ggcaccacac
42061 tccctactgg agcagcccgg ctcccttccc ttcactctgt tcttttctta gaaaggagac
42121 cgatctgcca aggggggttct gaatggcaaa gcaaaaaggc ctctgaatc aatcatttcg
42181 catccaagag cggcctccgt gtgtaagctt cctcctctct atgctgggaa caggaagtcc
42241 actgcctttc ccatagcagg tggctccttc ccaagcatat taaattcata ccaaaaaaaaa
42301 aaaaaaaaaat ccaggcagct ggggatggat caacttcagg agttccatga gtttctcaga
42361 caaatgtttg ctccagcata aaagaaaaga aaaaaaccaa caatacctct cctgtgacca
42421 ggcccaaacc acaggaacaa aactcacacc tgctcttttg aacggtttct cagctcgtga
42481 gacagtgtgt atcctggtat cctaaccaag gctgggtggg cacaccctta cacagactca
42541 gaggcagcca tgctcctact ccatectttc acctttgccc acatactgac tattctcgca
42601 atggacgagt aggactgcc tgcaccactg aggtcaaagt aaagctataa cagcactcag
42661 aaccagagc ttctctaggc aggccctctg catcctgtac gccttcggag gtcagtttag
42721 aaaggccaca gtggcagtgt tctccgtgaa gatgctgcag ggcacagcag gccacggacc
42781 agtcagtggc tcaatatggc ctgctgtcta ttcagttttg taaggccctc ccaagcaaga

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FIGURE 6R

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42841 ggggttttttt tttttacact tgccaacagc tggggcaaaa acaaacaaat taacaagtcc
42901 cccacgcccc acccccaaat aggagtattt tataagaaga aaacgagagg aattcaaatt
42961 ccaatataaa gtttttagttg ggcaccagca gtaacactgg ctgcaatcca agcactaggg
43021 gagtttgagg caggaagatt atcctaaata cctgggctac actgactcca tccttgttga
43081 ttcttgaatc atagtggcag agcagagggg ctggaaggaa gagtgagcgt gcgggtccca
43141 gcaccaccaa tcctctccag tgtattagag aaatcctctc agtctatgga gtggtccaca
43201 gagaagccac ggctctctcc actacacaga accatcactg ttctaccgc cctgtagtaa
43261 atccgatctc cttacaatca cccacgtac cggagtatct tcctctgagg gaagccctgc
43321 ctctgaccag cagctatctt ctggagaccc tgagctagct agtgtcacct catcgagctc
43381 ctcttagggt tcattagaaa gcctgtgaga tgacattttc aactgttgga gcctcacggg
43441 ggacgatgct agcccacacc ttgacatctc aagattcaga gtacagtcac tagcacctct
43501 ctgtgctctg cccaccacct gcactgcacg cccaacctct ccatctgtac attgcctcac
43561 catccaaggc gccacgagag tgagcgctgc gctggggaag agaaggccag gggtaggcag
43621 agtcttttgt gtagaagtga agaaatcttg acaaccccc tgggattctt tcactagtgg
43681 agctgaacct gttttgaagt gtttctggga aactgtatgg gtcttgacat atcagtggga
43741 acctgctttg atgcttaacc ccgagatgca gacgaacagc cgagccccc cttaacgtgt
43801 gcacatcaaa tgcaagtcca ctgctctcaa cctgtactcg atgagccaat cgggaatacct
43861 tcatgtcttc cttgaaacct cactccaaga agtgccattc tcggggctgg agagatggct
43921 cagcgggtaa gagcactgac tgctcttctg aaggctctga gttcaaatcc cggcaaccac
43981 atggtggctc acaaccatcc ttaatgagat ctgacgcctt cttctgggtc tgtctgaaga
44041 cagctacagt gtacttagat ttaataatga ataaatcttt aggccagagt gagtggggcc
44101 gaccggagtg ggcaaccttt gttcccagca accacattaa ggctcacaac catcagtaca
44161 gctacagtgt actcatatac ataaaaataa taaatctttt aaaaaaaaaa aaaagaagtg
44221 tcattctcca gacctactga gccaccaaca tcagatgaca aagaaagacc tctactcaag
44281 agagtacaaa taaaaggccc acctgtggaa agattcttcc ccaattttgg caacaccagg
44341 taacttctga ggggtggagc ctaggaggct gccagggtcat tagaaagtta tcttcaagat
44401 ttaggactac agcaggaaga ttgtgaacct ctttaatgca ggggttctca accttcttaa
44461 tgctgtgtcc ctttgacaca gtctctcatg tcgttggtgac cccaactat aacactactt
44521 tataattgta atctgtact gttatgaggc aaaatggaaa catctgtgct ttctaacggt
44581 cttaggtaac tcctgtgaag gggcaagggg tcacgactca caggtagaga acggcttctc
44641 taatggctcc ctttcacttt caagccacaa agtgagactg tgcgctctga cacacctttt
44701 ctaccgtaac agttacctcg ccacaaatcc aatggacccc actgccgctc ccacactggg
44761 agccaatgtg aaatgcttct ctttgaagc tgtttatctc agggagtttc tcgagtcaca
44821 ctggctgagc acggagggtg acctgacacc acgtgtgtac tgccatcgag tgacaattct
44881 cacaaccaat cgatgcagga tgttattttt aacagaagtg gagcgaggca accatctcac
44941 caaccccccc taggggtgtg ctacaagcat gtccaaagag ggatgagctc aaccgtgctg
45001 taggtccatg cagctcgaag ggattaagaa gacagcagat ggtctgtgac cttgtgtggt
45061 ggctctctga gctttagtct acccgtgcaa gagagtgact cctgaccaca gagctctgtg
45121 tgagcatgct gtatagacct tccaggggct tggggagagc tttcaaattc ggctcagcag
45181 tagtaactaa cttgcatttt tgtcttaaaa attaaatttt gcatgaaaaa gatgagccag

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FIGURE 6S

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45241 gattgctcat gtatttcaga gatgggagat gggggggggg gggtagtggt ggctgagacg
45301 cacgccatgg tgcaaagtgc caattagcac tgggggggacc aaggggggcac aggatgagat
45361 taaggagcag cacaaagtca cagatccaac aagctcagca gcagcaggat agagcctttc
45421 taatcctctc ctgtaccac acacaacgga gtgggtggct ctggaaatac atacagcata
45481 tcagggcagt tgtccggctt gtccagaagg ccaccctcca tgacgaaacg aagaacttgc
45541 tcgttggaca agccctggta gggctgctca gccagcgtgg cgatctccca gaggacgacc
45601 ccgaaggacc tacaggtgga acagaaacagg aacagctcag aaagggatgg gaagggccat
45661 gtccctcctt tgccagcatt tcttagactc tgggtcctga aaaaaagtgt cctcaatgtg
45721 acgactgcac tttgtggaca tcaaaccagc cagcttgcta cgtgtgggac atctgttccc
45781 ctttgtcact gctaaggctt cctatagggc tactgcaacc cagggtgag gtaattaatg
45841 ttaggggctt ctaacatctc tcacagtttt aagagcccga tctacagcgg acacattcag
45901 tgtctggtcc cagccattac ttggacataa gccaaattag ctctagtcca gcaaggaatg
45961 cagaggacca ggtcccagcc tggccactga cctgagacag ctaagcatct caactatctc
46021 ctgcagggat ttctttcatg ccagcttaga aatactgatg ctaatgggtc tccacgcctc
46081 cgcaagaaga atctgatcag ggttcttaaa acaatgggta tcttgggctc tccaaagcaa
46141 ttctgacctg ctggtttagt ggtagggagc tgggcctgga atgtctcaaa gttctgtagg
46201 atcttgactt ggggtcaagga agatgaaaac tcgtccctg cagaactcag gagccatggc
46261 tgcagagggt gctgtgtcag gaagggaaact ggggtaggat aactggcca gggggtgtgt
46321 cgcaataaca aagagtcctt tgggtctagag gctggctgag gtatgaactc atcaggcgaa
46381 gcagcgagga ttctactgcg tgaggtatgg cctgtcagcc cagaagatgg aactaaagga
46441 gatccatgca tgcagacact tcagacagac aatggtcaca ctgtcgtcca gtgtgaacac
46501 accttctcag ggagaaccct tgctttcaca aaattcttcc tggcctgtct gctcttatgg
46561 tcaggctgta tggctagaat gaagaaggct gcccatggca agccaacaca aggcctcgga
46621 tggaacccta gcagggtga gccccacaga agagcctgag gcggccattt tccacttagc
46681 actctgagga tcctggccta agctggagca acagcctctg actgcatctt aacttttggg
46741 tcgcagcttc agtttccttc taggaacaaa agggttttgt cccaactgat gctaagcaat
46801 gtcagacagg aacagaacct cagcaatcag acccaagttc cttgggaacc ggcagtcact
46861 aagacagaca gtgcagttac ggttttcaaa gacctggccc tagagaagca ggtttcctgt
46921 gtgtttcagg cctgggttct gccttgacaga gcctttgtgg acactcggag gcattcttta
46981 gaggctgcag tgctcaccct catgtctgaa tccggcctga gacaagcagt gatgtatgtg
47041 gttttctctt tttatcaacc ggtcttgacc aggttccctt ccaagccgac tccccttgtc
47101 tttcatgctt tccctgggtc accacaggct ttcaggcatt cagtcacaat cctggccccc
47161 agctcttgac tgccatgtct agattgctgg ttacttgact ctacagactc agcatgtcag
47221 ctccagtgtg actcttgctg gcaccctggt ctctcctgg actccctgca ggccaacttc
47281 ccattccatc ccaccccatc tcagcagcca gtctgctcat aggacggaca ggaagataga
47341 gagtataaat cagaaagaac gaagacgtgt aagggtggc cttcctgccc ttgtgagggg
47401 ggggacagtc cctgggacat ctccccagaa gctcaaataa cagctgtgat aaatgcagat
47461 ggtcaggggtg tggcttgacc tgaggacacc tcccctcacc atgttctctaa ggtctcctac
47521 caagtcaaac aaaatccttc caacttttct ttggattttt acctacttct gactgtgaat
47581 tcattctaaa atgactgcaa ttctcttagc aagcagaggt tcaggcagag ctgagcatcc

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FIGURE 6T

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47641 gtttatacgt tctagtgtcc ttgatgtccc cagctgtgtg ctcaaacacc ccagcacttg
47701 gcctttttctc ttcacgcatt ttcttattgg tttgtaatgg ctacgtaatc caagtggagg
47761 aaacctgcag gaagcaccct gtgcgcctct ggctgtggca tgcagttgtt acccagagtc
47821 ggggggagaat gagtctgtgc tcaactcttc cctatcctgt aaggtgatct ccaagcttcc
47881 agaaaaatga agcttagaac aaacagatgg aagtgtggcc ctaggtgtgc cctctcctgc
47941 gacctcatct acacatggaa cagagtctct tgattcgaca gagaagatgt aacctcggag
48001 aggctaattg cagagcagac ctcacccctag agtcgggaaa caaccaggcc gcgctgggtc
48061 atattcaaag gctatttcca atttgcacct gtcttccaaa caagatccaa ggctcttgac
48121 cgggaaaggt tcacgaggct aaagaactga tgtagtcac tactgagata gtttctctgt
48181 gtggtcatcc gccctttgaa taaaccaacc accgcttctt ctgtgacaca acagcaacgg
48241 gatctcccgga ggagacagcc aagacacttg ctgacattcg aggaggggga cgacgtgccca
48301 gggctcctgc ctgccaagaa ctccagttgt attttggaac ccgatgacct ccacacggtg
48361 tttccaagga actgcagtaa acattactac agagaagtct ttgcaccctc tggtcagtgt
48421 gctactaccg caagacactt attattaagg aagatgcttt gggtcaggaa taatggacat
48481 cgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgaacaga
48541 tgagaccaac agaaaaccac aaccaccaag actcaagtct tgggtttaaa taaagcactg
48601 ccttcaatct gaaggtttctg tgagctgctg caggagcaca tacataccca gtaccaactc
48661 actgagagtg ggggaagagag acgggggaac aggcagaggc gaaggcattt cccagctctt
48721 tggaaatata atcaatattt gctaaaaatg gaaggaaatg ttggttctac ctactccttg
48781 gcttcccaca gatacctttt ttgctttaat ggactccaca caggaatatc taaaagacaa
48841 agggctaaac ggcactgaga gctgaactca aggttggcag ttggtcacag tgaacaaaac
48901 aaggaggaga atgagccacg agtgagaagg tccaagctgg ccatggaggg aaactctcat
48961 accagacatc agaatgagta gtgaagacac catccttgag ggactcggga gacatccagc
49021 gcacaggcag caacccttc ccgcctttcc ggtagtagtc cgtctcgtag atgtctcgtg
49081 tcataccgaa atctggaggg aagatgcaca gttactcggc tggaccaggc cttggggcag
49141 agccctgtcc ttcccccat attcaagggt agacatgttc ttgctccact ctgagagggc
49201 tctagcatca cagccacttc acaggagaat acaagacatc tctggtcttc atcaggctcc
49261 ttttaagaaat taactccctt ataacattta aagcgagagg cagtttgcaa aatcattgag
49321 taccatgatt tttcaagaaa atatacgccg cacagggtga ggatatagtt ttaaagtttg
49381 gtccaataca cgggagggat aagaccccat ttacttggtg gtgtgtctct actgctgagg
49441 aaaaggcctt ttgccactcc acagaggaca atgtacgaag taagaactca ggaagataaa
49501 aggacagcaa acagctgaga tgttcttcac caggctcctg gagctactac ccaacaccct
49561 ttccaacac aatactctca ctcagttttg aaaatgtttt ccattttctg agtttcatca
49621 tgggtgaatgg caggcttgct tttttataat ctcacattac tgtgtcttta tccatttttg
49681 attttccact caaccgcacc acctttccct cacataaact cttgcattct cttccctgg
49741 agggaagagc tgctcaacct ttaaaatgtc ccctcgcaac tctaagtggg gccacaaaga
49801 ggtgaggtag aaaaaaggca gagcaaacc atgtagggtt tgctctgcat ggatgttaac
49861 ccaacacaat tgacttgcac cgctgtctga gctactggct gcctctcttg aactgattta
49921 ggggtgtgtaa tccctgagat gggggcactg ggggacactg aggaatgcag aactcgcccc
49981 agggaggaaa aggaagtgtc taaatctcat ctctgaatta atccagagac atgcaaatga

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FIGURE 6U

50041	gaggatctgc	tttgacttgc	ataaaagggg	aattctagaa	aacaatctct	ctccctaaat
50101	gcaaaagaaa	aatagaacaa	ccccctcttc	ccaaacgggc	acacacaatt	taattctaaa
50161	aagaaaaatc	ataattataa	tagaaaatat	cctcataaat	gcgccacatg	gttaagcaga
50221	aaatataatc	cttactgatt	tggatttaaa	atggcaaaaa	gcacacgcac	acacaaaagc
50281	atttttccaa	ctgtaatgca	aaatggggacc	aaagcagcct	ctcggagttc	ctggctgtgc
50341	tgagaagggt	gcacagcagg	gtaagatgag	gacaggggca	caggcttgct	gtcccagccc
50401	gcctcctcct	ccagctctgt	cccaatccac	tctcactcca	cagggtgggga	aagatggcac
50461	agggagggaa	ggcacctgcc	tcaggccact	caggagcaca	gtttcctctg	aggactaaaa
50521	tctagatccc	cacacataag	ggagggatgg	gaggcaggaa	ggaccacaaa	ggctgggttaa
50581	gaggatgcgc	ctcttatcta	gaaactctgg	ggcgggggat	cctcttaagg	gctgcccacc
50641	aagctaggct	cccagggctc	caaatatgag	tgtacaaacc	cagagacagg	ctgggggtat
50701	cttcagtaac	tccaatgact	gacatctggt	ctgtaacaca	gctgcatgcc	aacaccctta
50761	actcctgcaa	tcagcaaaga	agagagcccc	actttggata	cctctctaga	gatgacaccc
50821	atcgcttact	aagaggccgg	aatggctcat	gcaaaaacca	cttctagggg	tgaggcaagc
50881	agaacatctc	caggacacaa	gctcaagagg	cggccaaagg	ttagtggctg	atcgcttctg
50941	ctacatcgtc	tgtccctctg	cttgttctca	ggatggacac	ttgttatggt	tctgacctgc
51001	tggcctatcg	cagtaggaag	gtaaagtata	tgcaggatgg	ttttctgagc	aaccttggtta
51061	ctactttttt	tttttttttt	ttttgaagta	aaagacaaaa	aaacaaagcc	aatatacaag
51121	ctgtaaggct	ggggagaatt	tctagccaat	gaccagagat	gtaatgcaat	cagtgtttta
51181	ggatcacaa	gtgttggcag	caacaaggta	ggctgagcag	ctaagggtcat	ggcaggaagc
51241	tatgcacgac	agaacggcca	agtgtctgga	gctaccactg	aaggatgcac	ctcagtggct
51301	taaccagcag	catacatcag	gccctcgggt	caattcctgg	cagcaggaga	ggaggagaga
51361	acttagagcc	gaccagtcc	atgagtga	agcagtcagc	agtgatctcc	cgcgactga
51421	catgaccacc	atataccctt	cctgtttacac	tatgcagggt	ttcaccatag	gggcacctgg
51481	cctcttagga	accccatggg	cctattcagg	gacaatgctc	tttgtaagct	gagaaacttg
51541	aggggtggac	tggatggtga	cattctcctc	aagccaaaac	cacttcagga	agcaagctgc
51601	cccgattatt	tctgtaacgt	ttgacctggg	gagcagggcg	ccaatctgga	ctaccatggt
51661	aagggtgctc	ccgggttaca	gccaggaata	gacagtcaca	ccgactacat	acatctttgc
51721	actcaagggc	gaggcactgc	tcctctcgga	cataatgaaa	atctctccag	tggcagacta
51781	atgactgcaa	agtccctcca	gcacctgtga	gttcagttaa	gcctgtgctc	caatctggaa
51841	agcaaaggac	acacctccaa	ttttgactgt	gaaatcttcg	gctaccatgc	agttcctagc
51901	agcaaggctc	ctgtggacga	acttggtggc	attgaggtag	gccatgccat	ctgcaatctc
51961	tccagccatc	tggatcatct	tgcttaagct	cggaggaatg	aggactagat	tattctgctg
52021	cagattcaaa	acaagacaaa	gccatgagca	acggagacct	ttccccctta	acctcctgta
52081	ggtctacact	aggagtgcga	aatgcatatt	tacttagtct	gagtaccaca	ggtcacctgc
52141	agggagtgcg	gacttgctaa	gaaggactag	cacttctagg	gaccagcaat	ctcttttccc
52201	acccctccc	atgcatgcat	gtgcatggat	gtgggggcct	gaagcttatg	ttgggagcta
52261	ccttctaccc	actggttgag	gcagggtgtc	cctatcaaac	ccaacctggg	caacatagat
52321	tgctctgggg	atcccaactc	atccttccaa	ggctggaatc	acagggtgtg	tgccacacca
52381	gccccagcct	tacctggcct	ctgacgacct	gaactctggt	ccttatgcct	gtgaccaccc

FIGURE 6V

52441	cctccccct	agtcttttct	atttggagca	ggacaaaaat	gatttgaagt	gaatcagcaa
52501	gttttaggcat	taagcattct	cagctccagc	tagtttccat	gttccttttg	cttccgccat
52561	caccaagtgt	gagtaagagg	aaggacagag	aaccctgtaca	aaggccacgt	gaaacagaca
52621	cacttcctaa	gtggattacc	acgagctttg	cttcccgtgc	aagctgccag	gacttattcg
52681	tcttcattcc	cttcttctaa	ggtacaaaga	taggaagact	aatgctttcc	tcttggatta
52741	ctgttttcta	cgggcactga	ggataaccac	agttcaggtg	gagttcacct	tggaggggac
52801	caaggacact	gagcagcaat	gaggaccaat	atcatgtctg	aagaggaggg	caagatgctg
52861	ccttaggaac	tgaaaagaat	taacctaaaga	agtggtaaaa	tcataaacia	acaaacaaac
52921	aaacaaaata	agataagatt	tatgtctaaag	aggctgatga	gaatggctta	gtgggaaagg
52981	tacctgctgt	caagacaggg	ggcctatggt	catgtcccaa	gacaggtatg	gtaaaagatg
53041	aaaaccaact	ccctcaaggt	ctaagtaggt	atgcacatgc	atatgcatga	acacacacac
53101	acacacacac	acacacacac	actacacaca	tacaaacata	aaaaattccc	aaagctccgt
53161	caccccactc	ccatgtgcaa	aaccaaccat	gacccttatg	cctcagtttc	cctaactgaa
53221	aaccttctca	tacaacacta	tgaagccatc	tcatttccta	atgtatctca	agtcacagga
53281	gagcatgacc	aggcttggag	atcacactat	ttgggctagt	atataggccc	tttgtgctct
53341	gaccacgatg	aacactcaag	agcatttctg	ctcttggcca	gggttgctaa	gttctcagca
53401	gatgccagac	tctaggaggc	cagcaacagc	cctctagcac	gtccaggagt	actctccaga
53461	cgacatggca	tgtgaggacc	aagttgagct	catttatcta	tttaaccatt	ttcactctga
53521	tccaggggtct	cttcctataa	tctaggggat	gtcctcagag	gatgtgccat	cacaggtgct
53581	tccttgtcac	gctgaccttt	agcaccgtta	gggtcttaca	tacacatggc	aaagcaggac
53641	ctctgcagtt	ccgtgacatg	tacttatagg	ctcatgacac	atactgcagt	gtatgtgtgt
53701	aatgttggtg	aactgttcaa	caaagagctg	tcacttaaca	tgtgaaaaac	aaccaacaat
53761	ggggacttaa	ttatgtgcag	gaaagggctg	ggctgacatt	ttgtcagttc	atggtaatat
53821	gttgtcattc	ttttcttcat	ctcgagaaag	aagaaatctt	tagttttgtt	agagcctctt
53881	aagggtgagca	cacatccata	cacttatcta	agtaaataag	caaacagcaa	tggggggagg
53941	tagaatacgc	tgaagccggg	gtgtatacac	tgaagctggg	tatatatact	ggagctaggg
54001	tatatacact	gaactgtgga	gtatacattg	atgctaagat	atatgtgaag	tatttttttaa
54061	aaaattctga	catgagttag	acaaaattta	gatctgatga	atttaaagat	taagttttac
54121	ttccgaaaga	gactttcgtg	atccaacctg	tctctttaca	ttgaattaaa	attttgtttt
54181	atgtttgtgg	gtgttttgcc	tgcattgtgtg	tttgtgcact	acctgcccac	ggaggcccat
54241	ggaggccagc	agaacagtga	ataccgacag	ttatgagccg	ccacgtgggt	gctgggaatc
54301	cacccagggt	tctttggaag	agcagccagt	gctcttaact	gctgagccat	ctctatagcc
54361	ctttctctct	ctacatgagg	aagcggaggc	ccagaggcat	ctgttaactg	aggactggag
54421	gtaaccaatg	gcaaaaacag	ccccgagagc	acaagttacg	ggtttactct	gggcatgtgt
54481	caaaggcatt	aagcacattc	tgatgttagg	agggtgcctta	aaggaccact	ctccagtctc
54541	cttctgtaga	ctgggtatta	ctggggtagg	atgctgctgc	tgggagaaac	aggcatagct
54601	ttgtggctct	gctatcaatg	catacaccgc	cttgtggctc	tctcctgaaa	cttcagaaac
54661	acacatgagg	acatttgtga	acaggctactc	agaactaaaa	tgaaggaacc	atccatcact
54721	tggtagatga	ttacgttgtg	gaggaaaaga	aaacgaaagc	ttctacagag	aaggggagca
54781	aaccagaaa	gggcccagaga	agaggaagtt	ccccttacag	cgaatgcaga	gacaagctgc

FIGURE 6W

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54841 ttagttagcc acaggtatca aagccagggc cgaagtgaga gcctcagagc ctgaggcagc
54901 cccatgaaaag gcatttggtc cagcaatatt tctcaacacc cccatcagtt aactcttagt
54961 gaggacttag aagccaaact taagccaggt gcttggtggtg cataccttta atgccagcac
55021 ttgggagaca gaggcaagcg aatctctgag agttcgaggc cagcctgggtc tacgaagcga
55081 gttccaggac agccggggct gcacagaaaa aaaaaacaaa caaatgctg tctcaaaaaa
55141 caacaaacaa acaaacacaa aaataacaac aacaaaaaag aagtcagact cacatatgct
55201 aaaaagctgg ctgtgggcta acacaacaga aggggacact ccacagtgc taatcaaaaa
55261 attacacagg acctactcag gttcacagtt tgaaaatctc actagcctta agcagaatca
55321 tgcagctgga atggttatca tttaaaagcg caggcacaa actggcttat tgcctagcct
55381 ggggagtagg ttcagggttt gagaagtgtc tgaagcagtg tcggggcaag gggagagcag
55441 tgtgtgccat caaggtaagg atagcatgct cacatgtaca cgtgtgtgtg tgtgtgtgtg
55501 tgtgtgtgtg tgtgtgagtg tgtttgtgag tgtgtatgag agtgtgagag tgtgtgtgag
55561 tgtgtgtgtg tgtgtgtgtg tgtaatgggc tcctgaggaa acagtggctc cgtgcacaga
55621 ccgggctgcg agtcactctg gccaaaacct ctgacaacct gaagagtgc ctttatttag
55681 tacttactga aaagggtacc agccacgggtc atgacctga ggtaaagaag aggtcaccc
55741 cgaggacctc gagagtaaac gtatgctagg cagtcaagtg tactggaaag tcagtggggg
55801 aggccagccc ggcctgagtg ggaagctgtg ggaagggttg gccatgacac gtggtagagc
55861 agctgggggt ggtgtaagat gtaggcaggg gtagcgggga tgcagaaaca agagcacaga
55921 gatgctggag gttgaatggg tgggatgcag agacagacct tccaaagatc ccagtctgcc
55981 tacacttgga caatcctata tagagggaac tgacaagaaa gcatactca aggcactcaa
56041 ggctgagaag caaatggact taaagacacg tttcctacaa gccagctcct gaaaaaagtg
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56161 ggagataact tttgagatca ccgctgttca ttagttccat gatgaccagg gtgggctggc
56221 cttgggatac cacaccagc aaccggacct ggaggaatca agaaaaggac tcagaggggg
56281 aggggggcat cccacatgat gacctacgcc tctcggaact ggggtgtgct ggggcctgta
56341 gccaggagca gagttctggg gggaggcgca gggcgaggct cccacctcaa gggctctgtg
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56461 ctggccaagg acatacaggg tggctctttc tgtccatact ttctgtccat gtctcatctt
56521 ggcttcttac cacatggtga caattgaact ccttcatac cgaggcctcg ttgagaaact
56581 cgattctttc acgcatactt gcagcctcgt ttaccgtctt gatggccact ctggtttcgg
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56821 gaccaccaa ggagaacatc aaggtacaaa cagtcagca cgggtactca atctctgagg
56881 actccatgac actttgaggg tggactcgt agctaagaac cagaaggaaa ccaagaaacc
56941 taagatagga aaaccaaata aaaccaaaca acagtgggtc ctttttcata tccttggcaa
57001 aaccccaacc caacaaaata aaaaaagcaa attagcccta agagacaaag aaagtgggac
57061 ttctgttttg cctgtcttca tcaagggatg gaaatgtagg tcagaagggg agaacagtgg
57121 gaggggaaag gaccaaaggg ggtcaaactc cctcctccct ggatgaagcc agaggtgaga
57181 aacatcctct gcatggcctg ggtgccagtt tacaggccac ccagccccac tgtaggcctt

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FIGURE 6X

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57241 cagcgccttga agtcgtgctg gaagtaagac atatactgca ttttaaagac ttgcttaaaa
57301 caagtataaaa aagataaactt ttaaaagatt ttaaaattta cgtatacatg tgaaaatctc
57361 tctctctctc tctctctctc tctctctctc tctctctgtg tgtgtgtgtg tgtgtgtgta
57421 tgagcacaca cacatgcaca gatgtgaggg accacccgtg tttgggtgcc tgggaaaccc
57481 agaagacagt gttggcttct cggacctata gttacagatg gcgggaggtc tcttcacaga
57541 ggtgctggga actgaattag agttctccag aaggtcagca aggtctctca ctgctgggcc
57601 catttttttt tccagctttg tattccaaag acttggttaa agcaagttaa aaaagatagc
57661 ttttatatta actgttggat gttgtgggct aaatgaaaat tctaacagat ttatctcatc
57721 agctttttaca cttaaaaaaa catggctact agctgggtgt ggcaacagga aactgcagtc
57781 ccaccccagc ccactgggca tggagggttg agatggggtc tgctgaacta aaggcatctt
57841 cagatttgtgt ttcaaaacac caagacaatg tgtcagccgc ctgggatgtc tatcagttca
57901 cgcacttcat tccacttctt ccatagccat gtccgacaac aagctcaagg tggctgagag
57961 ggagaaaactc agtcaacact aaaggcagag actcaagaga agagtcttca gccatcaaaa
58021 gaaaccgcag aaaaggagat gagaggccag cccccacccc cacccccgcg gagcgctgag
58081 gtaggtcttg tgcactacaa gcactgtctc cctatatcc tccatacagc tgtttaactc
58141 tgggaagctgc agaggttggg tccagtttaa cacaccctgc tgcccctttc accgagatct
58201 agtgacgata cagactgcct gcctttttcca cctgagagga aggagaactc acacgttgat
58261 gaagaaaaaa gcagggttgg gagatgaaac ccagggttca aatcccagat gattcaagggt
58321 gctctacagg ctgtaaaatg cagttaaact ccagggtgtg gctgtgttgt ttttcaagtg
58381 atttgactta gtggaatgca tactgtttta aaaccatcaa ttttgtgaat ggctgttttc
58441 cctgcatgca tctgcactgt acgcacatag cacctgggtg cactggcac gtgggttctg
58501 ggaatcaaat cagggtcctt ctagaaaagc agccagtgtg ttaactgct gagccatctc
58561 tctagccccg gaatgcatga aagtattaaa acttaacaca agaagccaaa ctcttgccca
58621 acacagggtga agcctaggag cccctttcca ggggatctct agtgagggaa gtgagcgctg
58681 ggatggaggg ggactcagta gtgacccac ggctttggcc tgcactctgc aatgccagga
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58921 tgggtacagc gagaactgaa atcatatcaa attaatacgt aagatctgga aagagaatac
58981 ctgctccatg agaaccataa cctaacagag ttactgacag ccctgtctaa cagaggatgg
59041 ccagcaggca tggcaagaag gaagccctag cttagagaca ggcctgggag gggaaatcacg
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59161 agcaggatcat cacggttatc agtcaccctc agagcacaag cccttacttc taagtgatgt
59221 cttaaagggaa ggggtgtttat tataaattcg gggctgggga cccattgac ttgtattttg
59281 aagaatggaa catacatctt gtggtggttt gaataggagt ggccccaca gactcacaca
59341 tttgaatgct tggtcattag ggagcagtga tacctgacag agattaggag gtgtggcctt
59401 gttggaggaa gtgtggcacc gaggggtggc tttgaggttt caaataaccag gcctatgtct
59461 tgctctatct ttgctgcctg atccagatgt agaactctta acccctctcc agcaccatag
59521 caccatgtct gcctacatac catcatgttt gctaccatta caacatgggc ctaaaccctt
59581 gaacctgtaa gctcctttta gccagccact ttccatgaga agagctgctg tggtaacgg

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FIGURE 6Y

59641	tgtctcttca	cagcagcaga	acactaagac	acatacttat	ctgtctactc	acttactctt
59701	acttactggc	tgatttgggg	acaggactgc	tctatcttgt	tcatacttgc	cttgaacttg
59761	ctatgtaatc	caagctagcc	ctgaattgac	aacttttctg	cctcagtgtc	cccagtagct
59821	ggattccagg	tttgtgtggc	cacatttggc	tcctgtgcat	gtttttgtat	ttcatggaat
59881	atgtatgtct	ggtaatttct	caactagaat	tctgtcttcc	atgggcctca	gacaacttgt
59941	gaccctgcag	aggctgagct	tgctgaggag	agcagagggg	gaaaggctct	tataacacct
60001	ctctgtaagg	atggggacca	ctgtctccat	ttattacctc	taaggatcca	ggctggcttt
60061	taatgagaat	caactacacg	gcttgcttgc	tgcagagcat	ggagftaaaa	gcccatacaca
60121	tccattccct	gggaggtccc	tgaagttagt	ggtctcaacc	ctttttctaa	actcaatcca
60181	gctgccgact	ttagccagag	tacctcagct	ttgccagcca	gagctgttca	taaacttcgt
60241	acaatgttat	cagcactttc	ctgtagggca	ttctcagtgc	actcttgaca	acagcaacat
60301	gcagattaac	tctgggagaa	agacgttttt	aaagcacctt	tcagatgcaa	tgtcactttg
60361	tagctctttg	aggcaaaagg	cttgtgtctg	tgctgtgctt	gtcaaaaggc	caaacaaacc
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60481	tgctttgttt	tgaagggggg	agggagacta	tctctctggc	acctcttttc	tcctttataa
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60721	ctggaacacc	gtaggcaa	gctctatcac	taaactacat	atccaaactc	acttcatttg
60781	tttggttggt	tttaggagaa	agatagtctc	cgtaagtaac	tatgtaacta	tgctttcaag
60841	tgtgggtgctt	acccttctag	tgtattttct	atgctttata	ggcacaaacg	tatgcacata
60901	tgccacttta	aaaaataact	ctgcaagacc	ttttgcaa	agaaataaca	tcattattct
60961	gcacctgatt	caaattcaga	agaggctggt	cttgactggc	tttactatac	acataatcca
61021	gttataaatg	attaaagaaa	ccatagtaaa	accatacgca	cttacatggg	gcttttaaat
61081	tacaaagggt	tttctctttt	tttttttttt	cccatgtgag	caggataatc	aatcggactg
61141	tgtcttatct	gggccgcac	tacttacact	tctggagcaa	agaaacattc	ctcctgaaca
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61381	tttttgcttg	catctagata	gacatgagaa	agctccaagg	gctaatacgag	gagaggacct
61441	ctccccagct	tacttagaag	gtctgaagcc	aagcataagc	gctaggggaa	aaaaagagac
61501	cagtagctaa	aacacagggt	ccgagtcaga	acttctgagc	catttaatta	aatgactttc
61561	attagttact	gccaaggga	atgtaaatgg	gtgcataggc	tgtatgacct	taatcaggat
61621	agaacagcag	agggattcca	agatcatata	acgctatata	gccctcactg	gccagggaac
61681	gcctgcagcc	ccaccctgag	ttgataccca	ctcaggatgc	ctggctggct	acagcagtc
61741	tctgactaga	cggtagtaat	tagaatgctc	ctttcactct	gatgccacac	ttcaagcggc
61801	taactgaact	gcttagcaga	ccggccaccg	gcctctccag	agcctgggtt	ctactggggc
61861	atctgagagt	cccagaatgt	ctgacagtca	ctgagtgc	aagatgttat	taaaagacaa
61921	gaaggaaatg	gtaccaaagg	cagatccctg	gacaaaggta	tctcaaaatt	acgcaacgct
61981	tttctccagt	cagcacctga	cagctcccat	attccacac	cttggccagg	acgcttacca

FIGURE 6X

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62041 tcagctgcgc tgaaatactc gggggttcaca gaagcataca gcactccatt gcccacacctg
62101 ctgttatttc tgtcaaaaaa aaaaagatga aaaccaggtc aacaaatccc atctctatac
62161 atttctgtaa ataccttttc ttttcctttt tttctttctc acgagttatc ttgagcaagg
62221 gacgcaaacc atgatcactg ctgaacggag ccttgccctg actcctgatc caggccccgg
62281 tatctgagga caaatctttc cactttttgc ctggcctcag attagagctt ctaaagaaac
62341 atttgtttct ttgcttcact ggaaataaca aggccactc catgggaagc taaactggca
62401 tgcttgagga agctcttaca aggcagcaat ctgtgtgcta gaacagccag aaagcagacg
62461 acgggtacag agaaggaagc aaccctctc ctgttgctgt tagtcattag gaaatgtcct
62521 tttttccctt ctgaagaatg tctgactagg aactctggct gtccagctcg catgggtattt
62581 tccccacag acgagctatg ttcaagtcca aatcatcaag ccaatgcgcc acaagtactg
62641 tcttccgctg gcccaggcac tcacctcttt ctatggaaga catacagcat gataaccagc
62701 cccccaacga tcagcaggat ggcaaccggc agagcaatga tcagatgcat gaagtcttca
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63241 caattcaagt ctgaacttgc taccagtacc tgggtggtaa gtaccacagg atggcctcca
63301 ggggttcagg tctacacctc tgaaaatcct gagaattctg ccagattcaa gaactcagtc
63361 tgtggacagg tggattaaca tggatgtacg ctgggcatag ggggaagaag agatggggga
63421 gcgagggttg cttcccttag ggaaacggct tcccgtgcag aggaatgtct tgcagagtgt
63481 attgaatgat gaaggggttt ggttccagct aagtgggttc cgccccattc ttcagattga
63541 gaggagtcag tggtcagcag ttaagcctat gaactgcagc agtgaccagg atattgagat
63601 gttcctcagt atgtaacact ggcaccttga tctggggaca accaacagct gtctaagtgc
63661 actgaaggcc tgagcactgg gaggaattc ttgcccgaat ctgtaaacct agctgactct
63721 ctgtagtgct gtggacacta gagaagaacc tgctactagc acttttctga agcagtgagc
63781 ttctaccacac agataactag ctctcaggcc tcgccagaga agcctctttc tgcagcagat
63841 ggaaaggatt agagaaaacc atgactggct aaaatgcagg gaaccactga ccatggggta
63901 cccatgcccac actgatgata gaccacacac acaaccccca caacaaatgc tcatggaaca
63961 ctgcaaaaata agtgcggtgg acgattctaa gatccagaag cccagggtgt ctgctgaggg
64021 atgccacctt ttatgtaaga caccaccgc atgcgtgaat cccaacaacg cggttaccta
64081 aacttgcgta atgacaatac cagttcacat gctttgaagt gtggggaatc tctgaagccc
64141 cacccttaga tgagaagtta ccagcagtta atggctgctg agagagaagg aggatcagtc
64201 tttatcaggc ataagcttgc tgataggtta gccaatccca cgtggtcctc cctaaacaca
64261 tacatgtacc agtaacacta aatgagcttg gcagagcatg tgtgtatatg tatgtagggtg
64321 tatatgcata tatgtatata gacatatatg tatcaatgtg cgcacaagtt gcttagcaac
64381 aataattaa gtagtcatgg aactgagaga ggtgggcatg gaagaagctg ggagagggag

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FIGURE 6Z

64441	gagccagatg	gtgtaaatac	agtactcatg	tcagaagttc	taaaaggcta	aaactaaaac
64501	aatgaagaag	aagcatcagt	gaactcttcc	aaggccagac	tgaaaacgga	ttcatgtact
64561	gggaagatga	gtgtgtctga	ggacacactg	ggggcctctg	cacactgcca	ggtctagagg
64621	agttaaggga	acgtaccagt	ctcctgtggc	atgctatgca	tcgctccagt	cagacctcag
64681	gaagaaatcc	ttttccataa	gcaagatcag	agaggcgctc	taactttgcc	aggggtgcac
64741	ggataactga	caagttccaa	agtcagagcc	tggctttcct	gcagccctgg	ctcagaacag
64801	ccgcaaccga	gtaactggga	ggctggattc	ccgtcatgta	ccagaaagaa	tcagtaagac
64861	tccagttaat	atgggaaaac	aaacaaacaa	aaatgagtat	gcggagaaga	agaagcgaag
64921	ggctgtgagc	tttcatctga	gagcccaacg	gaatgcagat	cagggaatga	aacggaccga
64981	agtgcctcca	tgaaagcact	ttagatttca	ggcttataag	gagtctatag	caactattgg
65041	acacccaagt	tgacatgtct	acacaataag	gatggcgttg	tgggtaaaaa	cacttgctat
65101	gttaccctgg	caaccagaat	tcaatccctg	gaacctgaga	atcaactctt	caatgttgtc
65161	ctctgacctc	tgcacatgtg	cacaccaagt	acacaccaac	agtatagaga	tgtctccttg
65221	gaaaggagct	ggggactcag	tggagacatg	ttcctggacc	gcgagccact	caccaatggt
65281	tggctctacct	ctaaactcta	ttcttaatcc	tgaaatacta	caaaagccaa	aattaagctc
65341	ttttcaaaaat	cgatgggatt	cagcaccttc	cagtttctaa	aagtactccc	acgtgcgcct
65401	ccctgccaga	gagaagctcc	gagctttcct	tttcccctag	gagaattcgt	ggttttgtgt
65461	tcctgattct	acgggtcagg	ttgttctgtg	ttctttttga	gtttcacatt	tcaacaggga
65521	cacagaggaa	ctggaacaca	tccagaagga	caaaactgac	agaaaattgt	ctatgcaact
65581	ggctttcaag	aaagggccca	aagacctgag	aatatattaat	cgggagggaa	gaagtctgaa
65641	gaggagttta	atagaattca	cgcaccaaga	tttccttaaa	aacagcaggt	gatgccgagc
65701	tttcaatgtc	cccctctgag	gattagacct	aagaaaactg	tgctaaaactg	cgtcttgtcg
65761	gacaccggga	aaatttccca	gaagccaaga	gcgctagcac	gcagcttcaa	tccccctgtg
65821	ggatgtgcca	acttccactg	gagaaacccc	attagaggac	ctcttaagag	tccccagtgg
65881	cattgcagtc	ttagctttac	aaaggcagct	acaaacatgc	cctctcctaa	gaaaagccag
65941	actcacttag	cttcagaagt	caagactgct	ccttcagaga	acaccaccca	atttccagaa
66001	ctccagtgtt	ggcttagtag	cacgacgtgc	tacagataag	cggaaatgta	ccccaaggca
66061	gagatgctca	gggcttcggt	gccggcctgt	gacgttattg	ggaagtagtg	gcaggtaacc
66121	ttaggagctg	ggttctagag	gaagtcagggt	cactggaagc	aggtgtcctg	tgagagaact
66181	gtgaaacccg	ggccctttct	gccttttgga	ggtaaccagc	ttggttccat	catgtgcttc
66241	ctgcttctga	cattttgtct	cagaacagcc	caaaagtaat	agaatcaaca	gacagagcac
66301	gacaaccccc	gaaactgtgg	gggccacccc	tctaatacatc	tctgggtttt	gccacatcgg
66361	agagctacag	taacatcaca	atggagagtt	agcacataag	ctaactgatg	acgctaggct
66421	accagaaaaa	aaatgagaaa	attcagagtc	tacctgacag	aactctcagt	ctcatcatct
66481	ctcaatctag	acacagtagc	agcagataca	gggaatccta	gcttcctgct	tacggttcta
66541	tttacttctg	tctttgtgca	gtcacgatga	ggattttcga	atgtcttgcg	tatctttgaa
66601	tatctggaac	tggctaggtg	ggctatcgaa	gtgtgaactg	acataaagtt	atacatgtat
66661	acataatttac	cacatacaac	atatcttaaa	gcatgtgtac	attaacccaa	tcagcatcag
66721	cattaagtcg	cattgttacc	atcttctgtg	tggtaacact	ttcttagcaa	tattcaataa
66781	tgcctttatta	accatagcta	gtgtgttata	aagctcactc	ttctatctac	ctaaaattgt

FIGURE 6AA

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66841 gtacctttttg agcaacaccc cctaagttat gttccccctgg taacctgcaa gactctgagt
66901 tcaccctttt agattttattt catatatatg tgagatcacg tgggtgtttcc ctttctgcac
66961 cttctatttaa cagtattcca ttacatatat ggaccacatt tttaccaggg cacctgctgg
67021 aggatacttc attgtttggc tactgtgact agtggggcaa aaaaacaagg ggggtgtaga
67081 tttcaacaca actaacttcc atttcttttg gactgggatt gctggatctg ttgagacctt
67141 gtctgaatca agaattccaga agagaccacg aagaacataa gacattagga aacaacagtt
67201 cccacacccc tagattctag cctcaaagct gagctgagat tttggggggg ggggagtgca
67261 aaaggaattc acatttgatc ctgtattttg ttggatatta catgaacacg aaataatcta
67321 aaaaaatttg gcttctcata agacacgtaa aaattcacta tgtattattt caccaaaaag
67381 actcaatttt tttttttttt cgggtcaaaca agcatgcagc ctttgcattt aacatttcac
67441 aacattttact tttaaatctg aatcctaaca gctcactcag tggtttctgt gaactgtgaa
67501 acattatcca ctagggtggg tctgtgcaaa ataacgcaca gagtatcttt caatgcatcc
67561 tgggtgatgg tgaagagcac agaggagggg aagactctga ctgggatgtt gtctctcaga
67621 ttcctgtccc ggagcagtga caccagacga tccctgggga gacgctgagc gctgggtcac
67681 cctcacggac caggcaggag acctgatact caactcaatg ctttgcaaaa tgcctccaca
67741 cctgagccac gatgagaaca agatatcttc taggttgtag gatactcttc tgttactcac
67801 aagagaaggc tccaaggctc agcaccttcc cagctctggg atgtgcgtgc gagtgcacgt
67861 gcgtgcgagt gttgggggtg ggggaagggt atggtggcac agatgtgtgt ccactgtgag
67921 taaataccaa gtgtcttcct ttctggcggt acacctccgt tttctagata cggcttctcg
67981 ctgaaagcaa aggtcaccaa tggaccattc tggctagcta gggatctgca aaactttgac
68041 tgtcgatctc ctgagcaccc aggaagcaca ctaccgcccc tggtttccgt caaggacttg
68101 aacttagatc ttaagcagg cactttccct agtaagccac ctcccaacc cagccagctc
68161 tgttctaaca gaaaaccaga gagcccaga agctcagggc ttctgagttc tggcccagcc
68221 agctttgaaa tttaccgtgc gtctccctca ataagactta cttttggcgg ggacatagaa
68281 gaacacagga tctgtccatg acccattccc agagagggag gtagcctgaa tccgggctgt
68341 atagttccct gggtttagac ggttgagttt ggccctccg tacttccctg actcctgtct
68401 ggacacacat tcccgtgat cctatggaaa tataaggcgt taatttccta caagcatggg
68461 tgagatctga catctgtcaa ctcaagtcac catgctgtga ctccagctgc ccaacctctc
68521 cttacattgt ccagagtatc aacataaagg aagcaaggat accggaaaag tggttttcag
68581 gttggcacat ggaaaatggg aatcaaatat gttggtaatt aaatcaaata tgttggtaac
68641 tccagaggaa taaaagatca tcaagacgtg tctagtctgc ggctggaggc ctagctacag
68701 tttcattggt tgtatgaagt ccagccagct ccattgcacc aagttactac tcaataaaga
68761 tggcggtgct aggaagacct ttatccttcc cgactgccc tctttctccc ctgtctgctt
68821 agcagtcagc agacaaccag tatgccatag cacgtgctct cagcgctgaa acacatgcag
68881 ctgcaggcca tggtatccct cttacctcga cttgcgacct gtatttaatt tcatacatta
68941 ggatcaatcc gttgggggtc tcgggttctg gccactttaa aaagatggag ttttcgggtc
69001 ttggctccca ggtcacggga ccagggatat catctgctcc ttctgcataa ttaatgtaaa
69061 caagcagtca aattgggttt aggtccccag aaagaatgat aaacgggtgtg ctaacttgag
69121 aacaactgtt cccccaatcc ttgtatatac aggactctgg acagggggacc ttgtaggagt
69181 tctttcctga gatggctgct ggcacagcgc ctccatcccc tctgactgaa aaaacctgtg

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FIGURE 6BB

69241	gccaaagtaca	agtgatcacg	cctgaaaaac	ctatgtaaca	ttctccaggt	ccattttcct
69301	acctaataaag	ttaaaaaaa	aaaaaaagaa	cccttcaaac	agagcggccc	tggggaaggg
69361	cagtgaagcga	cagcgtgctg	agcctccagc	tgtggcactg	acacattcac	agccccacacc
69421	ctcacacggg	agggaggaag	ggccagttcc	gaggctggcc	tctgaggcag	ctgttccggc
69481	cactgtctct	tccagccacc	gctggcctca	cttctggtgg	tgaaccacag	ctgttgggtg
69541	acagctgatg	acagccgaga	gaggcctggg	gagataagct	gttctctgtc	tcttctagga
69601	ttgggaaact	gaggcacggg	tggctgaggg	ctacacggga	gtgccaaagc	cgatctcaga
69661	agctcttact	gccccagttc	ccagcatgct	ttgttctccc	cactgactga	cacctcctcc
69721	acgaatgaga	agtggcaa	ggctggcagg	gtgacaggca	gtatctaact	gtaggaggag
69781	gccccacaggc	tgatctagct	gaccacgagg	acaacgcttc	ctctgcatca	agctttgaga
69841	cctggagggc	ccctcacagg	tctgtggtgt	gctaaggcct	ttgtgctctc	agtctgtagc
69901	ctctggcact	gagagaagac	aggactttag	gagattgggc	ttcaatgaaa	gaagtgatga
69961	aatacgatgt	gttgcttcat	tgcaagcccc	aaagcagtga	gaggcaagtg	cctgtggtct
70021	aaaactcctg	aaacactgag	accaaaataa	acctttcctt	ctggtgaagc	aactgccttg
70081	ggtatcttgt	aatagcaaca	gaaagctaac	tcattcagct	gtgcacagaa	gggcacaggg
70141	gtgggtgtga	gcatgtgcat	cgtgaaccaa	gccaaggagt	gagagccctg	aaaggggctt
70201	gtaaagagt	tctatggtta	agtctggatg	ggagctggca	ctaggaatac	attctctgtt
70261	ccttaggcac	ctgacggacg	acgttgtgta	ccaacaacca	cacattcgta	ggcctgaatc
70321	taagggctgt	cagcctcccc	cgccttggct	gtaagttggc	ggcggggcta	cctgccgtac
70381	ctgctggcat	ggttctcgca	aagacgaagt	tggaggcgct	gcagcccagc	ttctcagcct
70441	cgtggttgca	gctgtggata	tcgatgcggt	acagagtga	aggccggagg	ttggagatga
70501	cagtcctctc	cttggttatcc	actctgctct	caaagaaagg	gtactctgtc	tcgaactcct
70561	ccgggtctgt	gatattgtag	gtgtcagcta	ccgtggtgtt	cctgcttcgg	ctggacatgg
70621	tcgtgttggc	cacttgcacg	acgtctctcc	gcctcctttc	gggcctgcaa	ggaggagaaa
70681	gaaggctcagc	tgctaagttc	tttagttttc	tttgtctttt	ccatggctag	ggtagaagta
70741	ataggaaagt	cctagccttg	aactaaaaga	aactacttag	gctccttggg	taagaaccaa
70801	caaataacca	ggattttcgc	cttcacaacc	catcctgtac	tctcttgaga	catcctcaga
70861	gaaacatgtg	cacacatggt	tctaggaaac	agtgtgccag	ccatttttag	ccagacagtg
70921	ctctgtttta	ccagacagtg	ctacttggtc	aggcctgata	actgagcatt	caacacgaca
70981	aaccatcagc	ctcataagac	tggttgggaa	agggtaggcc	taagacacac	aaggtagaag
71041	agacccaaag	tccaacagta	gtggcttctt	tgatcttctc	tgaaatgaag	atgccctagt
71101	ttaagcagct	agcaagtacc	taaatcccag	cgcttttctt	gaggaacagg	gtctcctatt
71161	gatgaatgcc	cccagtccct	agtacacagc	atggtcttgg	agggtcatca	aacctggctt
71221	tgcatectcc	ttggcagtga	gcttgtctgt	gataggagcg	gagcctctgt	tactcactga
71281	cttgtgttag	cttaagaaac	tacagaaaag	caacaggaac	agagtctggg	gctccctctc
71341	ttccagaaaa	aacttctaac	attcataaaa	actgaaaaaa	aaaataaata	aaaatatgac
71401	atcagataag	cagccctatg	ggctggaagc	aaccctcagg	ttgtctgcag	gtgaacagtg
71461	ggcaagctgg	gtattgaggc	tggtgctggc	attgcttgtg	acaggacaaa	ggatgagagg
71521	aacaggtggg	actgcactgc	gtctggtaag	aacatgacag	agtaagacaa	aaggggagcct
71581	agagtacggg	gctcgaggcg	ccttggaagc	catgcccaag	gcctatggat	gctccctagg

FIGURE 6CC

71641	ccaacatctg	ggagagtaca	gtagggagtt	gggggaaaagg	gccgcatgct	ccctgggtctt
71701	cagcagatgg	atctgctacc	aaaaccatag	ttctttgtcg	ggtactgaca	tgccagtttc
71761	cattgaaagt	atatcaactg	ccataccagg	gccccatctca	aaagttagga	atggggattt
71821	gttatcataa	tgctggggaa	agagatagga	aatgagggta	ctattctacc	atgctcacac
71881	ccagcaaacc	ataaaccgac	caatcaacaa	accatggaag	gaaagataaa	ggaaactact
71941	ttttcaggta	tgtgtgtgcg	tgcatgcatg	tgtgctgctg	tgtgtgtgtg	tgtgtgtgtg
72001	tgtgtgtgtg	tgtgtgtggc	ggctaggcag	atgttcaaaa	cattattatt	aaatttcctg
72061	cctccctttc	aaaccagagc	aacacaaaacg	tgtgccttca	tgtaagaagt	tgcttgtgtt
72121	tgattttattg	caaaatgata	ctgggtccact	tcttgccctg	acccaccccc	aacaaactgg
72181	gctatagcac	caagcagact	cagtggcctc	cttacttata	aacactgcac	tcttgcatat
72241	tattcaacag	ttactgtgga	cacagagtca	ggaccatgaa	gggaggcaat	ataggcatca
72301	gaaggctagg	gatgattcaa	acagagtggg	ccaggggggtg	gcaaacagca	cactatcagc
72361	tttccttact	ccataaagta	tcctgatgct	actggaaaaa	cttgtagctg	ttaacatctg
72421	agaatgtttt	agtgcagaa	acatttttga	agcgtcttca	aaaatgaaga	tgggcgccaa
72481	tgaaagccat	ttactgatac	caagtttagg	aagtaacttt	ataaatagta	gcctccactc
72541	tactataaac	tcacaggcaa	agtcagacaa	tgcaaaaaga	ctaaatctga	tatatattgcc
72601	ttcagcccc	agataaacgt	gcacctagaa	tgacatgaag	gtaggaatag	gttttaggta
72661	aactcggttg	tatgatgaca	gagttgctcc	tgtcatctag	ggtgctcctt	tatgggacct
72721	tgcgagacct	cgtatagatg	tcagatcctt	gcctcggtag	gaggtaaaaa	acaaccccc
72781	aaacccta	ggccaggtgt	ggtgacccct	atctgcatgc	tgggtctgtt	ttaggacact
72841	gaggtgagga	cacttacacg	aaggaatgtg	accgagagaa	aattcgtttc	aaaccacag
72901	tacaagccct	gcacggtccc	atctgggtca	accacagcct	tgccgcccc	tcacttagcc
72961	tagcgttaca	cagctgatga	taacagcagt	cacaaagtga	tgatcatctga	gtataactaa
73021	acaccaaggg	ctttctgcta	tggtcggtct	acccttggtt	ctcatgctgt	attgttagat
73081	gtttggtcac	tagtggggca	gctgcaggag	gaacctttag	ggaatggtcc	tgtaggggg
73141	agatcctgat	gtagcaaca	agctaagtgc	tcaacgtctg	ttcagcttcc	tgtctgccct
73201	gaaatcgctg	ctgtgccata	agtacttttg	ccatgcgaca	cacccaaaga	tgcttcatc
73261	aacaaaagcc	acactggctc	cttggttctt	taacttttaa	actgttgagc	tatgcacacc
73321	actaagcatc	acgcaatttg	ttagcaacaa	tgaaagaacg	acctaaacct	ctggccatgc
73381	ctacaggagt	cctggatttg	actgacaccc	agtatagggg	tgggtatggg	aggacctctg
73441	cctggcctct	ttgggacgct	ccatacctgg	ccactctcat	ggctactctt	actgagtgtt
73501	ggttcaggtg	gaatgctcca	catagataac	ccaatgaagg	gacggaggtt	tggtgttgga
73561	gaatgtaggt	ctgagaccca	agactcaaac	agacagtaag	ttagtgagga	tagaggtcac
73621	tgcatccagt	ttttaaaagca	ccttttgatt	tgtttctgt	cttcaggtct	ttaaattcaa
73681	agaaacagac	atgacacaga	ggggaacatg	ggtaaaaagcc	aaaacagcag	cgctcctgt
73741	cagctgactg	caatagcagc	ccagcagcct	gccaaccaac	aggagctgct	ccgcgtgggg
73801	cagatgggag	catgcacagc	ctaaggcatc	aaatgtagcc	tttccaaagg	gcacactcac
73861	ctgggcacaa	agatggaatt	gtgaaggaaa	ttctcaaaga	ctttacggta	ctcagcctcc
73921	tccttctcag	cctgcttctc	agcttcagtt	ttagggcaag	cgcagcatgg	ccctttatca
73981	ccaccacaca	cttctgtctt	gggattttcc	gtcacctcct	ccacgtcgat	ggtaccatcg

FIGURE 6DD

74041	gcgtactttc	tgatgggtat	tttgtctgct	tggggaagac	cagagatggg	aatgaaagcc
74101	atgcaggaag	tgccctgttag	cattgctggg	ggaggggagg	ggtgctggg	tgactgctg
74161	agaagcaagc	cctgcaacgt	gacaggtgtg	accctggggc	tcaggttctc	tcagacaaca
74221	gacaaggcca	gtggcactgc	ctgcctgctg	cctgccagcc	cccagctcac	ctttggagca
74281	gtagtgtgtc	cggtacaggt	aaccatccctg	gggctgccgc	tgccacctca	caatgtagta
74341	actcaagtta	ccattgggca	gagttggagg	attccacttc	acaatcagct	gagaggaaga
74401	gtttgatgct	gagaggacat	ctaggggaat	ggaagggact	ggaaagaaga	acaaagaaca
74461	tttcagagaa	tagaccggaa	tccgaggttg	aggttatcag	gggctcgatg	caaaccaaca
74521	ggaagctgca	ggcttgacct	gggcacagag	atagcaacgg	accaaccaga	gcatgaggtg
74581	aaccagagct	ttggaaagat	taccaactgg	gaggccagcc	ctctctcaga	gcacttgctc
74641	ttagataatc	tatgtgcaaa	cacacatggc	tcactgacct	gggactgaag	gggctacgag
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74761	actgtcattc	tccggtgtgt	attaggaaat	ggcaaatg	acggcttagt	acttcacctg
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74881	gagtgggagt	gggggatgga	cagtgtgtgg	ggtggttatg	tgcttgggtg	aaaggactgt
74941	gaaacaagga	gcagggactc	acagatcttg	taagcaagtc	atgattcagg	aaaggcagta
75001	cgcctgagcc	ctgattctat	gcaaagtcc	gttacaagca	aatgagttta	acaaaacgac
75061	ggaggcttac	atactactga	tgcccaggct	caaaagtaga	actaacttac	gtaaaaagga
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75181	gcaccccatc	cccaacacac	acacatgcac	atggcaaaga	atgaggccca	ctggtttttg
75241	cagtttccaa	agtgaagag	acagaaccgt	ggttatgaca	cttaagaata	aggtccaacc
75301	aagctgtttt	tgaatctgaa	aggtgaaaac	aagcttgtac	cggtcagctc	tatgacaact
75361	tggcacaacc	tatctgacag	aaaaaaacct	caactgagag	gatggctcag	tatgatcagg
75421	ctgtaaggca	ggcctgcagg	gcactctctt	aactaatgg	tggtggagga	aatgcccagc
75481	tcattgtggt	gaggaggcct	ctgggctgg	ggctcctggg	tctctaagaa	agcaggctga
75541	gcaagccact	gggagcaagc	cagtgtctct	ccaaagtcc	tgtctctgct	ggagtttcta
75601	ccctggcttc	cttaacggca	gactgtgatc	ctgatgtgga	agtcaaatcc	tttccttgcc
75661	aggtcatata	ccaccacacc	aacaggaagc	gaatggacag	agggctgtta	ggatgtatgc
75721	ggtgctcaag	gctctgagaa	ccactgaggg	acaacacgtt	ggaagaccaa	gactgatgca
75781	gagaagacaa	gcacttgatg	cctgggtccc	tgagcgtttt	caataagtat	ttccaaaaca
75841	gtttcttact	aggtatttca	atgacaagtt	tcccagatga	agcagaggga	catgatggac
75901	taagtacgtc	actatcggtc	ccaagcactt	ttgaggtcag	ggaccaaagt	cagtttttaa
75961	tatttaggaa	gaagaatagg	atttcttaag	aatctgctat	aatgataaga	aattcctgct
76021	tagttttttt	tttttctctc	tcagatctgc	tgcaatgatt	cactgggagt	cattactccc
76081	aaactttaag	atgagaaatg	tattcagttg	ctttgctctt	ggaacgggtg	atatgtttca
76141	ttgtgttgta	agccactcaa	gtcgatggaa	ttttttgttg	taagaggtca	gtcattatct
76201	ttacagtga	gcatatcttt	ctacctctct	cgtcttttga	tacaaactca	cacctttgct
76261	tttccccact	tctaggttct	ggagctgggg	aactagtacg	taaacacatg	aagaagatga
76321	gaagggatta	gtcaataatc	cgatatcata	gtactctaag	cctgcgttcg	cctggtgaga
76381	aagctgggtg	ctacggaata	aaggtggaaa	gccagcaagc	cactagaggc	aaggggtgca

FIGURE 6EE

76441	ccggctcattg	tcgtctcagt	ccctggaagt	ctgcactgag	agagaggaga	ccagccacaa
76501	gtggctacat	cctgggcatt	cagagaaacc	atcctactgc	tctggaggac	accgattcaa
76561	ttgcgtagag	cagagatggt	gacattttaag	atggtaccaa	gtctaggaaa	tggctcagga
76621	gaacttaagg	tgttggcagt	gagaatgtta	atacagtgtt	aagcagcaac	aacaagcatc
76681	tcattgctag	ccctccagcc	atactgtgcc	tatgtaaata	aagcaagctt	ataaaaaattc
76741	agggaaacagg	ggttggaggt	tgttccctccg	gtgcgtggat	acctgaagca	ttggtgcgaa
76801	tgtacaagat	ttcacttttg	gccccacgga	tatggtcgtt	ttccaccatg	gtgagggtca
76861	cagccttgac	atagacagca	tactgggtcc	agggcttcag	cccatgcagt	aaaatgccag
76921	gctcgccttc	cttggttcgga	ggcagggtcta	catccaccat	gttccagctg	ttggagccac
76981	aggcatcctg	cccgtcatat	tccgtaacgt	ttttaaatgg	tctgaaagac	agtcaacaca
77041	ggccagagaa	cgttgaaggg	ctctggcatc	aaaactcccc	agaaccttcc	ccaggggctg
77101	aacgtgtcac	actttctatt	tctattggga	actccaaata	aaactcatca	tcaattagat
77161	ttctatacaa	aaataaaatc	aagcatctgg	actcgggagc	tcgacagcta	tgaaccgcag
77221	aactgacaag	cagccttaga	gacagcaagt	ccctcattca	cagggaactga	aaatgctgcg
77281	tctaagacat	gcgtagctc	attgtcttct	taagtgaag	ttaaaaacaa	caacaacaac
77341	atcaacaaaa	acccaactaa	tgaaaaaaaaa	aaaaacaaaa	aacaagcaga	gctgtttaat
77401	gcaaacaata	aactaataaa	acacaacttt	tggacaaaaac	taactttcct	atccccctag
77461	aactctaaaa	tgtaattcga	taatagccat	ttttatttat	ttttattttt	acttttttgg
77521	tttttcgaga	caaggtttct	ctgtgaagcc	ctggctgtcc	tggaaactcac	tctgtagacc
77581	aggctgacct	cgaactgcct	cccaagtgtc	gggatcaaag	atgtgcacca	ccactgcctg
77641	gctcataata	gctatttttt	ttaaacaatt	tttttagtag	atattttctt	catttacatt
77701	tcaaagtcta	tccctgaaagt	ctcctataacc	ctccccccgc	cctgctcccc	aaccaccca
77761	ctcccacttc	ctagccctgg	cattccccctg	tactggggca	tataatcttc	acaagaccaa
77821	gggcctctcc	tcccaacgat	ggccgactag	gccatccttt	gctacatatg	cagctagaaa
77881	cacgagctca	gggggtattg	gttagttcat	attgctgttc	ctcctatagg	gttgagacc
77941	ccttcagctc	cttgatact	ttctctagct	cctccattgg	gggccctgtg	ttccatccaa
78001	tagatgaatg	tgagcattca	cttctgtatt	tgccaggcac	tggcatagcc	tcacaagaga
78061	cagctatatc	tgggtcatgt	cagcaaaatc	ttgctgggtg	atgcaatagt	gtctgcgttt
78121	ggtggctgag	ataatagcta	ttttcgatgc	ttaactatct	cataatatcc	caacactttg
78181	tttcctgatt	gtctcagaga	gtggcattgg	tgataccacc	agttagcatc	gccagtgcac
78241	tggcagcact	ttcaaagggg	agggagggct	ctgcacagat	gcatggtagg	cggggtgtct
78301	actttgacga	gatgcaaggg	ctgctagcta	ctggcttctg	aaattatgct	gacatgactt
78361	gtgttcgatc	acgatgggag	aggggtggcc	cccattttaca	caaacactga	gtgattttga
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78481	ataccaggca	ctgccaccag	cacctttgct	tctggaaaga	tcagtgcctg	ggaaaacgga
78541	tgaccacaca	gactggggaa	accacctggc	cacaggaggc	tgagtaggaa	aatgggacag
78601	ctcaggaagc	tgtgatgtgg	agtaagcagg	atggctctat	caggaactgc	tgacacctag
78661	gttcgtccct	cactattctt	taatgctaga	gggctcatgg	cccagagcaa	agtcttggca
78721	aggccatgca	tgcataaggt	gactggaaga	caatgggtca	gttcagggtg	gccttgggtga
78781	gaacagagca	ccccatgggg	tattttgggg	gacagaggct	aagacaatat	ttaaccaagt

FIGURE 6FF

78841	ccacataatg	gcttatgaca	gtttggaggc	attcagttct	cttaaaattc	atcccccttc
78901	cccttggggg	gaacttactc	aaacaccata	taaacaatga	aagggctgag	gcgggacact
78961	ctcctgacta	gctgctgtct	cagggttggga	cagtttaata	tgacaactag	agaggtcaca
79021	tgaggatgag	gtgacggtcg	cctgacttga	ttctttatag	gtacaccaa	gactctctat
79081	tcagccaagt	cacactgcca	cctggccgctc	cccaccctca	agcttgacat	cagagtgaga
79141	ggcccaaact	cacgcctcct	tgtagtaaac	tgtgaagctg	atgagatccc	ggtagtccgg
79201	cggccgggtac	cgggtgccacg	ttatgatgat	tcggttcttc	caggctcgtg	tggaggtgaa
79261	acggagaaca	tcactttcac	ctggggcaca	gaggcacatc	catgagtgc	agaaacccat
79321	ccgtctctgt	gatgtcactc	tgagagaaaa	ccctgactgt	gcttccaaag	gcaaatctat
79381	ggctggcgca	ctcatgacct	gtcaggtcag	gctggctgcc	cctaagggag	aagccctttg
79441	aaatgctccg	atcacaggct	tctgctatgt	tcttgatggg	gaacaggtea	gggggctctg
79501	cagaaagggtg	aggggtgctgg	ctgtgtacac	acttaccacc	tctgcctaac	tactcttctc
79561	aagatgcctc	ctggatccgt	agagtatcag	ataaatctgg	atactcaaaa	gacaaggcta
79621	gcccctcccc	cacatgtatg	cacacgtctg	actagctgtt	ggtcacacag	ctcctgattc
79681	cccactaatg	ctatataatg	acggagggtc	aaatagagct	ttagtatttc	tgtttggttg
79741	tttttggttc	cttaaaacag	ggtttttagat	gtagcccaag	ctggcttcaa	actcacaatc
79801	ctcctgcctc	agcctgttaa	gtggtgagat	tataggagtg	taccatcatg	cctagctcca
79861	tacagtgccta	gaggagagac	tgacatccag	gtctgggacc	acatttggag	aggggctggg
79921	ttaacagggtt	gaactctagg	ctatgagatc	ttagggtgaa	aactctcatc	accaggatgg
79981	aattattact	ttgtccaaca	tgtgaaaagc	attccgattc	aaagacatgg	gctcactttg
80041	ttctagaagg	agcagggcag	agaaaggagg	ccaagtgtga	ggacaaggac	actggacgtc
80101	accggaagta	ttatagtggg	gcactctacc	tgatccttct	atggcacagg	agagaaaggc
80161	agagctgacc	tggagtggac	tggctcttcg	gtaaatattg	tttgctcata	ttgaaaaggt
80221	atttaactgt	gcaagctcta	agaacctgct	tggatgttta	atagactcaa	atggaccctt
80281	agaaaaatat	atcagtatga	gtgtatcagg	caccgcacca	ctaatatgca	gaggccaggc
80341	actggctgca	gtggtttgac	agtccatggt	gaaacaaaga	gcccgcacc	ggatgccaaa
80401	gactgttatc	tggactgtgg	cagtcccagg	ggtctgagat	gctgtcactc	acaggaagct
80461	cgctctccgt	tgttcctggg	gtttatgtcc	cctttgctct	ggcgtccctt	ggttccgggtc
80521	acttcctcca	tgcggtaaat	ttcggagaca	cacagcttgg	gattgaaagc	aaagtacatc
80581	tttccggacc	tgacggtcag	gttcgggtgg	ttccagtccc	acagctgctg	caagtctctg
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80701	tgagcccaca	gccccctcag	gcgacagaga	gcctctctgc	ggccagtgtg	gttccatacc
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80821	gcaaaaagat	gtgccaagga	caatgttttg	aaatcgactg	gacactaatt	aatttcatga
80881	cctctattac	caacacacaa	agcttctccc	accaaaggat	gttccttgat	tcattccctg
80941	ggaaaatgcc	tttggttatt	tctctcagag	ccaggatatg	acaatgtgct	tgaatcagc
81001	ctacaggcga	acagacatgc	tccgctactc	aaccggaaca	gcttacatac	tagcagcaaa
81061	ggctgccatt	atccctagga	ataaatccta	cccatgccca	atcagcagtg	catgatggga
81121	tgggagacag	cctggctctc	tgtacatttg	cctctcgctg	caagaagcct	tcatttcagt
81181	ccctgagtac	gtgggagagg	acagacatcc	agtgtctccc	tgggctctca	catcagggta

FIGURE 6GG

81241	gctagatgca	gcgtgtaaca	tggtggcttt	ccacatttag	tatgtacaca	gcttgttctc
81301	agtatccctt	accgctagag	cttctgggtgc	agagggtccag	agtgcaccag	gaatctcgat
81361	gtctagcagg	taatgctgat	aaacaccagt	cctgggtcca	cccagaaact	accaggccgg
81421	ccacggcact	gtttccaagg	cctaacttcc	actagagggg	agatatgggc	atggccaaag
81481	ggaagatagc	tatcttaggg	ggccaagggg	agagcaagga	ttctacttgg	gtgtctgcat
81541	aagttttttt	ttttttttta	aacagttatt	tctaaatcca	cccacagacc	agacaaacat
81601	gtcccaaagt	cctgttctgc	cctaaaggct	gtgtccacct	aggcaccacc	tgctgagagt
81661	cctcaccac	attagaacta	ctgcctaggg	gggtctgcttt	caacatgacc	ttcacatact
81721	gagaaatgag	ttacagctgc	aggggttgcca	agcctctccc	gacacttcct	ggagaactca
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81841	gccacaggca	gtttcctcgg	tgctatgaag	agcagcggtc	atgtgcgtag	gtgaagtctg
81901	aggtctcgtt	ggttttaaga	ttccttatga	gagccagtga	gatggctcat	gcgtgcaaga
81961	gtacttacat	cacaagtctg	gtgatcagga	ccccgagaag	gaagaacagt	tactgtgtaa
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82081	agtcggagct	caagtgtgag	ctaagcagtt	gaatggaagc	ccaaccctc	cttgagcact
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82201	ggtaaggagt	gttcccctac	catgcttggt	tattggagta	ggaaacaaag	accctgatca
82261	aaggaatcca	gatcgtagta	cctaagagtg	tatgtcctag	ggaggtcctt	ggatacctgt
82321	cagtcagAAC	tgccacctac	gggacccacc	aatgttcact	cttattgata	tggggggtgg
82381	caggataggc	agacaactga	aggatagggt	taatgggtgga	aagattgggt	cccattagggt
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82561	caggccggat	acaagggccca	actaatcagg	tcaaaactccc	atctccatct	aggccaaggc
82621	ctcttagtaa	actaattttct	caagcaggaa	acagaattgt	actgaaaata	ccttccttct
82681	gagccacaca	ttcttctccc	cagggaggga	gcatgaatta	gaaaccagga	atttgacaaa
82741	tgaatggcag	gcacatagaa	actcagggtg	tttgactaat	cactttgaaa	agcaagatta
82801	tctttttcaca	gtaaacacaa	actttctctc	tttaaacaat	gcagagaagg	ctgggagcca
82861	gaataccaat	atcaataaaaa	tccaggcatt	gtggagccta	cagaaggtaa	agaaaaataa
82921	aaaccttcac	caaaaataata	atcaacctgc	tggggagggg	ccgtccacac	agtgcctgct
82981	tcccaacccc	cacccgaggc	ctgcctcctc	aacaccttct	gcaatagtga	gagttaagag
83041	atatccccag	gtggagattt	gtctacacac	cttcaagata	ctaattgtcct	tgaatgggtca
83101	ttgtttttctc	aggagatga	ctagttaagg	gaaccactca	ataaatgcga	cttcataaat
83161	cgttttctaag	ctcactgcct	ttttacatcc	acagaatatt	tttaaaaacc	aaactgttca
83221	tttttttttcc	tttggtctcct	acacgctgta	tgatctcccg	gagttttatt	gagtgggtatt
83281	ttggctctta	gttcgatcct	tccttctttc	ctaccttcc	ttctgcaccc	ccccacccc
83341	ctcaagacag	ggtttctctg	tgtagccctg	gctgtcctgg	aacttactct	gtagaccagg
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83461	gtgccaccac	tgcttggtag	cttgtagctt	tttcaacatt	agaaaaaaaa	atcccctcta
83521	ttggatgggt	ttcacctgcc	aatgcataga	cctactagga	tggttagtca	acaatttggg
83581	ggccctgtca	catgataagc	tcacagccaa	cacttagcta	tgatctgtgg	ctaccatttc

FIGURE 6HH

83641	taggcctccc	ttttaagtga	agactgcagg	ggaccgagtg	tagagtcttc	catgtaggaa
83701	ctgataacca	ggcccaagca	ccttctccac	tgcttatgaa	gtggcacctg	aatgggtttac
83761	tcagcttctc	tagggctgct	ggttctcagc	tgcccatgga	gctatctttt	ctgggtctctt
83821	cgggccccga	ggccaattga	gaagaactgg	atgctaaata	taaaaggacg	ttataagctt
83881	tgaatcacct	cacaaaggca	caggatgacc	tgtgctactc	tctgaactgt	caaaagtccc
83941	ccagaacaaa	gtcacagaaa	ataggtaagt	cctgcacctt	gatacaggca	gggctgagct
84001	caaggtctcc	agcctacaca	ggaccctctt	ttcaagctct	tactggcctc	ctggaagcac
84061	agacaaccaa	taactcatat	ccatttttgc	aaggagacac	tactactgcc	tgtgacagct
84121	gtctctagag	ggcatcagaa	gccagtacac	tgaagctgtc	accagtacag	tcatttataa
84181	cactacttag	cccattctgt	gaatattggt	tcacttcagg	tccacagtta	taccatctac
84241	aaaggctcag	ttagtatgga	aatatatacc	caggcaaaac	taaaccaagc	accacataga
84301	ttgacaaaat	aggccgtttg	ttcctgagtg	ctttttaaaa	acagctttgc	tgaggtagct
84361	tttaccttct	aaaattgttc	ccactataaa	tatacagctc	catgggcttc	aataaaattta
84421	tacagatggc	caatcatctt	tcaatcatcc	agattcagaa	catttatatc	aaactgaagc
84481	ccccccccc	attcttctcc	catccaaggc	atttcccctg	tctgttcacc	caggatgcta
84541	catgtaccat	tggctagtat	cttactgtgt	gtttttgcgct	tatactgagg	aacccttaga
84601	ttatatctaa	cgcaccattt	tgagaaaata	ctatggaaaa	tgttgctaag	agcattcaca
84661	tgtgatattt	gcatacacat	gcttccatat	ctctaggaac	agcctagact	tgctaggcaa
84721	agtaactaat	tgtatgtatt	ttaaaagtec	caagtatgtg	ctaaaatgtg	gttatgttag
84781	ggtctagttc	cagagatgca	gggcacatta	caaaaccctg	agtctgcaaa	gggtagagat
84841	gcctaaacag	actaagaatt	ctaactttat	actggccccc	ttccagtatt	tttgttctgt
84901	tcaagacaat	aatctttggc	agcacctaag	agcttgaact	tttcatttat	ttgattgctc
84961	ccaaaccaa	gttgtccaaa	gcagagcatt	ttttttttca	gataatggaa	atattttctc
85021	tcttattcaa	ggagaaccac	atatccctat	ccccagacaa	aacttgattt	tccttcttaa
85081	tcccccccat	gacccccaca	ctttgctaga	gatcaggtag	caagcaccac	acactctagg
85141	ttaagtgtct	tatcactaca	ccacaccact	acttctgaga	aaaccctttc	ctttctgtgt
85201	ctgtccttga	gtacacagac	gtgcaggctt	ctggacacag	gagagagaca	ctgggcatcc
85261	tcctgttact	ctctacccca	ctgtcctgaa	acaggctgtc	tcacggagtc	tggtctcagg
85321	caggcaggtc	atctgactag	caagttcttg	ggatcagctc	gtctcagctc	accacctgga
85381	gctactcctg	ggtgcagcta	ggctcagtea	cgccgaggat	tcaaacacga	ggcctcatga
85441	ttgccaagca	agtacactta	gctagggagt	catctctcca	actcctatga	tcttatctga
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85561	ctgctgctac	ccaagtaccg	ttctgtggct	gtgcaccctg	atgtctgctc	tgctgggatt
85621	ctgcttcacc	tgtcgtcggc	ctggaaatca	gtgtacagaa	atgtggcctg	atgagcatgc
85681	atgaccagc	taagcaggcc	cagaaagaaa	acacaggaac	tacacgccag	gcaaaacact
85741	tgtgttccca	cggggggcta	ccgagaaggc	caagatcaac	tgcagtgtct	tcctggatag
85801	ctaaggctga	aggatacctt	catgggggtg	gggggtgggg	tggggggaaa	tattcctctt
85861	tccatcaaga	cagaagtctt	cagaatcctc	ctgagccgca	cggaagcatt	tatgccattt
85921	tcagtagcca	tacaaaaagc	tcaagaaata	gattccttca	acactgagtt	gaggcaagat
85981	tgcttaaaaa	taaaataaaa	tataaaataa	aataaaaact	cagaagtggc	ctgggactat

FIGURE 6II

86041	atacatttga	aggatcacag	ggatagcgaa	gtcattttcta	atcttttgcca	tgtgccaaac
86101	atacacagaa	atactcagaa	agttactcga	gcttatgtctg	gcaactcccc	caccccaagt
86161	tttctgtctg	acttgggggtg	agggtgaacct	gggtgaagtgc	cacaggggtc	ccctttccct
86221	gtaactgtga	tgtatccaca	cattctggga	aacactgggg	ggaggggggag	gaggctatca
86281	gtataaacga	cagcacccctg	aaattaaatg	tcagataact	ctgctaatac	acccctcttc
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86821	atgtcctggc	cagagatata	cttgaagcaa	gaggctctca	acctgtgggt	ttagattcct
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86941	gtaaaattac	agatatgacg	tagcaatgaa	tagattatgg	ttgggggtca	ccactacatg
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87361	agaacagata	tggatggac	tcactgataa	gtgggtacta	ggcagaaagc	atggaatacc
87421	cacaatacaa	ctcatggacc	acatgaagct	caagaggaag	accaaagagt	ggatgcttca
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88321	aaacaaataa	aatactcatt	taaaaaaaaa	aaagacttgg	ctgggtacttc	atacctaagt
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FIGURE 6JJ

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90721	cgtagccggg	caccacctcg	atgagcccca	tgaagttctc	caactccgag	gcaatgttat
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FIGURE 6KK

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92881	aaaagaaacc	ctaaaccaa	aaaaaaaaaa	aaaaaaaaaa	caaaaaaacc	caccttgttt
92941	ctattacctc	tacagactaa	gaatataatt	cacttattta	acaaataact	aggggcaagc
93001	aatccactat	aaataaagag	gacactttgt	ctctgaagta	aagaaaaact	ttctttccct
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93121	aactactagt	agctcaacct	agaagttcta	gtggcaggaa	ctgaagggca	tctatctagg
93181	ggactttctc	tgtcagtcca	agactagaga	agataagatt	acagggtctct	gctgccacca

FIGURE 6LL

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FIGURE 6MM

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97921	aacttcctag	ttgtattttc	agaggctcag	aaatgtgtat	gtgtgtacag	taccggaggc
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FIGURE 6NN

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99241	agccattaac	atttaacacc	catggactct	tcaaaatgca	gtggccacac	ccattaaaag
99301	ggagcccatg	gtactggtga	acagagagaa	atacagacaa	tatgggcctc	taggactata
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99481	aaagtgatga	agagaggagg	cataacaagt	acggtgggtt	gaaggagaaa	tgtcctacac
99541	aggttcatgg	atgtgaacac	caggccgggtg	gtgggtgggt	gtttgggaag	gttacagagc
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99661	gcctggccca	cttctctatt	tcctgtgtgt	gggtggaatg	cgatcacttt	gtgtttcctg
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100261	ctgaacagg	actctgctat	gcacttctgt	aaatatgtca	tgatgaacac	acgcctatga
100321	tccttacttg	tgaacaacat	ataaaaacaa	caaacaacaa	aacaaaacaa	caaactctggc
100381	taacagtaca	tgtacccaat	tgggggaagg	gattgttttg	aaatactaca	gaactacata

FIGURE 600

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102661	ggcagaaggg	cagaagaaca	gccagaggag	aggaatctgc	tactgattac	actgtccatc
102721	tatggctcac	acagatacat	aaagttcaat	gtaactcgct	aaaggctccc	tgggtgcagct
102781	gtcccagcca	tccgccaaca	ccattgctct	gtgattcgtt	agctcgacgt	tatcagcaga

FIGURE 6PP

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103861	gtcacaacat	gtcctgtgtc	agccatcaga	aggacaggtc	cagggtcagc	gtgcatacgg
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FIGURE 6QQ

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107581	ctctgctgtc	tgaaaggcat	gctgcagggg	agttgcttgc	atgctagtgtt	tctttttaag

FIGURE 6RR

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109921	gcagctcaac	cttagagtcc	ttttaccagc	actatatTgt	tctcacagac	tgtcttaatt
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FIGURE 6SS

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111061 acttgatttt agtggaattg tgtcaccaaa gggtgcaagg ctttaacagg tcatgcataa
111121 gcctctctcc atacacaaat gtttatgtga agataactga aatgactgac cagagtcacc
111181 catgggacaa ctagtactca gagcagagca catgaggcct aggattaagt tctgttacga
111241 aaagcaagac ggttcatgga gagagtaata aatgtgaaag atacacgcgc acatagacta
111301 cccatggaat tcggatggct acatgtacat ggacacgaat cccctattca cagctgctcc
111361 catcaactgt aagaacagct gctctaaggc tgccatagtc tagtttgga gaaaaaatc
111421 aaaaccaact cctggaatct tctctaaaac aatgctctgg tgactgtagt tgtctcgctt
111481 catgctgctc caagaggagg aactcccat gaaaaggagg aaaaggcagt ccacagtcca
111541 cgcttccttt ttgggaaaga tcagaagggg taacaggcac ctcacacctc aatcctgtga
111601 ctaattatga aggtggttta tttttactgc atagcctttt cttttccagt ttatatcacc
111661 tcttaatgtc tccagattca ttcttttcta gaatctttaa cttcattaca gccatctctt
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111781 ctcaagtact gtatgcacac agtgaagttt acaggaacta ggaggactgt gacatcatta
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112321 ctctttttct gagtgtgcat gtgcgcacac acagacttct gttggctttc attgtacttt
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FIGURE 6TT

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112561	tactgaagg	cattcaaagt	tcgagatgcc	acgctctttt	ttaaaacat	tttttaaaac
112621	gattaatagt	tgagcactta	ggtgggcagc	ggtggcatgc	acctacaatt	gcagcacttg
112681	ggaggcagag	gcaggtggat	ctatgtgagc	ttgaggccag	cctagtctac	agatcaagtt
112741	ccaggacaga	ggtacataga	gaaaaataaa	caaacacaaa	aataaaaacca	aaatcaaaac
112801	caccacaaca	acaactacaa	aattgggtcc	agactgggag	ccatcctagg	cacagtgggt
112861	agaacgcacg	ccagctgact	gaacagttcg	gatgaagatg	ccaacagaga	gaggccctt
112921	ctgttttttc	caattaatta	ggaactgtat	gtctgtaaat	ttttatttgg	tctttgaact
112981	attatctcct	gatctcagat	aatctggttt	actctaaggt	gctgtccaaa	tcatcaagtg
113041	ttccttgatt	gctcagacct	atccattatc	acccttggat	gtaagagact	gaagcaatga
113101	gaagcatcct	ggacctctga	agacgagggg	gaacccaggg	tatcctttca	gacactgtgt
113161	acagggcacc	tgcatagtcc	tgtgatgtca	cctgacccca	cggggctggg	agcagggag
113221	gtcatacaga	gggagggaga	tacaggtagc	tttctgcttc	cttcccgttt	gaacctttag
113281	cccaggtctc	ccttcacac	ctccagacat	gttctggaat	accctctagg	ctggttttct
113341	acgggttcacg	ggaattttca	ttggaagctg	aagggaattaa	caggtagatt	aactatctct
113401	ataaacctga	accccagtaa	gcagacagtg	ccagcccgtg	aagcatagat	gagtctggaa
113461	cttggaatgg	tgttcaagaa	tcactttatc	cgtggtataa	aaatggaagc	attcagaaat
113521	gggaaagggc	caaactgcac	tccgcctcct	acaacgggac	ctgtgacccc	acagaagttt
113581	ggcaatgtca	aggacacgcg	aagtttagtt	gctacacaaa	gggactggtg	cctatacagc
113641	gatgcctaag	atacaggacc	atattttcca	aatcaactta	aatgtgcagg	tgtgtgtgtg
113701	cacatgtagt	gcacgtggaa	gacaaaaggg	caatgcagta	tgctttccac	tattgctctc
113761	tgcctggtct	tgtgaagcag	gggctctcac	tgaagcagga	gcttactgac	tggccaagct
113821	ggtaaccagc	aggccttttc	tgtttcctaa	ggccacttag	tttttacacg	gatgccgggg
113881	atctgaactc	agcttctcac	acttgcagaa	ccatctctcc	attcctccaa	atcaactttt
113941	aagcagagaa	gccttaaatg	ctgcgaactc	ccaaactatc	agagtcttcc	tcttctaaga
114001	aagtatcccc	aggttttcca	aattctggac	tcagtctgaa	agcgagggtc	tgaaaaagcc
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114181	ccagcaggag	gaggcaggga	ggtcagggtg	cagaagccgt	ggagcctgta	tcctagtctg
114241	cagcgtatgt	caagggtgtg	tttgtcccga	tttagagaca	gagcgagcgt	tgaagtgaag
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114361	aaaggcagaa	gctgtgtc	actccctgta	atgggagcca	gacatgcaac	ttctgttatg
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114481	tcccacggcc	taggaacgca	ggagagagga	ggaatggcca	ccacaagtct	gggctgcatt
114541	cctctgttct	gcttctccat	ggggcctggg	agcgagcacc	tttgcaagag	aaaactcccc
114601	aagagctact	ggattctgga	gcaaaggcaa	ctcaggaact	atgaacccag	aggacggaca
114661	tcttcacttg	gcagatggag	aaagtgaagt	tcaagcaatc	taagcgagga	aggttgtagt
114721	gctcgctcac	tcactggagg	ggggttgggg	ggagcttgtt	caagcttcca	aggagtgaac
114781	acagggattg	ggacaccaga	aaagcagctt	ttcttcatct	ttgaaatcac	aagccctttg

FIGURE 6UU

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114901	acctctaatt	tccaaccctg	aaacgtttta	ctacgtgcat	tctctaactg	cactcgtctc
114961	tcaccttgta	aacaagcaag	atcggttgga	tgagtgtccc	ctaattacgg	tttcccttgg
115021	gcccgtctat	ccgcattggc	agcacctgaa	ctttctcctg	cactgtatct	tcctaaattg
115081	acattctcag	cccacactgg	cacgctggcc	tggtgcccatt	caacagcaca	aatgacacat
115141	cccaagcctg	atacttccgt	cctcctgccc	tctccacact	gcgtgtccgt	aatcctgccc
115201	tccacccact	ccccaacctt	ttgaaatttc	ttaaaccacg	cagaggaagc	cctgtagggc
115261	tcttaataag	ctcagtcatg	ctcgaaatat	ccgttttacc	cacaggggat	tgtaggcagc
115321	aattccgacc	agagcacatc	tcggcacgag	atcatggcct	ccaaagccca	gcgttcagaa
115381	ctcctaagag	caccgctctc	atgcagtcct	actggaacac	ttgggaactt	caaacagttt
115441	gggggtggga	aaaaaacatc	ctctctgata	cttccacctt	ccacctacac	tggtgggttag
115501	gaaactcctt	cctgttgctg	tgggcacgga	gggtacatat	cgcaactctc	ctggctctag
115561	tgtttggtga	acccacagga	actctgccac	cacctacaca	gaaagtccca	tgccagagac
115621	aacgacgcac	aaacatttta	tgtaagtta	gccacatgct	aagaaaatat	catcttgatc
115681	aggtattttt	ctagttctgt	ctcacgttca	agtctcaagg	cccacgtgga	ggggagcacg
115741	gaagtacact	ggttgcatat	cttctgcccc	actggaagat	gcttgggatt	tctgaagaaa
115801	ccacctgtaa	atcagtcctat	cccttaggta	atcgagaaag	agagtccatg	aattgtgttt
115861	cattgatgtg	agtcctatag	gtgcttcccc	ttggacaagg	ataggtacca	agaacaccat
115921	cctgggctgg	ggagatggct	cagtaggtaa	agtgcctggg	gttcacaaa	catagggcct
115981	gcgtttgggt	tcctagcagc	caaataaagc	acaggacttg	gcaacaggac	cctgggatct
116041	ccctggctag	acgccctcgt	tgaaatagca	acctctgggt	tcagggagat	gttgtagtaa
116101	agataatagt	gataatcaag	gtggagatgg	ctagaggatg	atggctcgaca	cccaccgtca
116161	actgtggcct	tcacctgtgc	acatgcacac	acaggcagca	agtgcacccc	atatactaca
116221	cacacaggca	gaaagtgcac	cccatatact	acacatacag	gcagaaagcg	caccccatat
116281	actacacaca	taggcagcaa	gtgcacccca	tatactacac	acacaggcag	caagcgcacc
116341	ccatatacta	cacacacagg	cagcaagcac	accccatata	ctacacacat	aggcagcaag
116401	cgcacccaca	tatacatata	cacagttttt	gaaaaaaaaa	aaaaagctca	aatcaattta
116461	taaaacatta	agttttaagt	tgggccctta	ctcactaata	ttatttgaga	ggatcatcag
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116581	aacaaaaaca	atctgccagc	ccggtaacat	ggtcatttgc	tttgaatggg	attgcttcat
116641	tctgtggatc	cacattccct	gaggtgggce	ctgaatggct	aggctcatct	tctgggaaga
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116761	aaacaaaaaa	aaacaaaaaa	ccaaaacctc	ccagcccggg	agccatgggt	gcagcagtta
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116941	ggagagtggg	gttcatgtct	tgtgttagaa	acatattacc	gagcagctgt	ctggttacag
117001	aagaacacgg	gcttggggaga	agttcacagt	ccagccctgt	cagctgtctg	aagtcaaagg
117061	gactctgcct	cctcagagtt	ccaccggagg	cagatgacag	acaccacccc	gcactgttag
117121	cccatgaaca	cacgcagcaa	ggcacacagc	gacagcaagt	gtctcctgca	catcggcagt
117181	gctctgtcaa	tatcagctgc	tgtctccacg	taagtctctg	gactggattc	tcaccttggc

FIGURE 6VV

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117241 tttgccaaact atgtaacagt gcaactaact ggtgcacagg tatagaagag atgaggaggc
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117361 gttcccttca tgtgctgaag agctgcagat ctggtttcat ggaaggatgg ttagatgaat
117421 aagaaagaaa aagagaacta aagaatgttt tcaattttaa aaattatgtg aaattgtgtg
117481 tgtgtgctg tgtgtgtgtg tgtgtgtatg catgtgtgca caggccaagg tgtacacatg
117541 aagggcagag gtgtgtgtga gagtatgtgt gtgtgtgtgt gtgtgtgtgt gtgcacaggc
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119521 gacctgcctg ccgctgcct tccctgtctt tgaggtgggtg acaactcctg ccaccccaac
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FIGURE 6WW

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119761	gaactggcca	gaatcagagc	ccttgaatth	tatgcactgg	tccagggagg	tcctgagaga
119821	gtggatgcag	agtgcactgc	cttttttctg	cctttgcttg	gaatcccaga	ggagccagat
119881	tccaggaagg	aagtggggca	gggaggcagc	agggtataac	gaacaaacag	aaaaacaaaa
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120961	ccagaagggtg	gtggcaaacc	tggcggcgac	gcttaggaca	tctaaatact	caattatttc
121021	tacttcaaac	agtgtaatc	gtacaaactg	gtagagcaca	gaagcagaag	aacattaaac
121081	acaggattta	ataatggata	tgtgcacaca	catatacact	gttgaagagc	ttgtcgtctg
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121321	gccaagagca	ctgccagcca	agaccatggc	gtggaaaggc	atgtgtaaag	cagggtgctcc
121381	cggcaggggtc	catgtatgca	tgagaatctg	ctggagtgat	gggtgggggtg	ggccccttag
121441	atccatgcat	ttcaagggaa	aactatcaat	tatcatcttt	atattattat	tttatgcatg
121501	tgagtacact	gtcactcttc	agacacacta	gaagggggca	tcagattccc	actacaaatg
121561	gctgtgagcc	accatgtggt	tgctgggaat	tgaactcagg	acctctggaa	gagcagtcag
121621	tgcttttaac	cactgagcca	tctctccagc	ctaattatca	tctttactga	taactaaaa
121681	gccttaaaag	tttaacttag	taatactctg	tttaaaagg	atataactaa	acacagccaa
121741	tctgttttaa	acaacacagt	ttcctgagtt	gactagaaga	tgctagttht	tcattctgtt
121801	tctcctggta	caagaagatt	tcaaactatc	tacaatccct	catttaaat	taaaaaccaa
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121921	ctgctcctcc	tattacaagg	aaggatggct	taatggcctt	gctgggctgg	gcttcctgac
121981	tgccataacag	tgtggaaggc	tgcacaggca	gtggagggaa	aaaaccccca	aacctctgtc

FIGURE 6XX

122041	gtttgttaaa	acaaacgagc	attttcacat	tcactcatac	tccctgaccc	catagatcct
122101	gtgaattcta	aaaaggacca	tgcttgatga	gaatgttttt	taaacattaa	cgcctacaag
122161	gtggagagcc	agaagaagg	agccaagagt	ggatggcgac	cctcttcttc	tcatgcttag
122221	caattttctg	tttcactcct	atgctttctga	gcaccccaac	aggaaggctt	cacagctcct
122281	gaaggtctga	gctagaccag	ggtacacatg	aatatgctga	ttatgtggtg	ctcatgcaag
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122521	tgcttctatc	gtctgagatc	tccattacgg	aactgtttgt	attgagtttt	agtgaaggaa
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123181	gtggccatgc	aaaaagagg	tcttccaaaa	atttaggatt	aagagggcat	ggtgggagag
123241	gaacaacaaa	ctttggaagc	cttctcaatg	tactgtagaa	ttaaaagcca	accaaggcaa
123301	ggaagggtgcc	ttccaaccta	gaaatccagc	caccctctgc	aacgagccca	ggcctgctgg
123361	agaccacgtg	aggtggtagt	gggtatgcct	ggaacctaac	ataccacttc	tagtaccgcc
123421	cagctggcac	ccaatcagga	gcggcacagc	attctctaag	cccagggttg	cacctgcaat
123481	catcttaagc	atacaatggc	attgatttcc	acttaggggtg	tagaaataac	actcagaaat
123541	tttacctatc	tctgctgttt	tgctgccaaa	tttcaaatac	tctccaagaa	acgcaaacac
123601	aacagaacac	ggaggatgtg	acacacaaat	tctgcacaat	ctcactgcca	atacctcgat
123661	gttataactca	gtgtattaaa	tggaatcaga	atcctgagtc	ccactgtcaa	acttctctct
123721	cgtctagtcg	gtatgtgtga	ctgacagctg	atgtcactga	atgcttgatg	tctgaaatgc
123781	ctaggattcc	tttttctccc	cccatccaaa	tataacagct	ccatttcata	ctccctagaa
123841	tttcatttgt	gactggtttag	cacactatca	gtgaggggaac	acgggggctg	caggaagctc
123901	accgtcctta	cagattttctg	ggagggagct	caagagtaag	taagtgtgta	agccttcata
123961	gctctaccaa	acacatgcat	aaaacctgat	taaacacaga	ggaagaacat	aatattctc
124021	agtcttctaa	ggggcagatg	aagtctgggt	agaaggagct	aaagaaaaag	catagagtaa
124081	aattcgctcc	cgcttttttaa	taactcttta	agataaggag	agttgttttaa	tgttttcaaa
124141	ataggcagag	agagagagag	cgagctagag	agagaaaagta	tgtgggtatag	tttatgtgtg
124201	tatgtgatgt	gatttatgtg	tgtgtgagtg	tgtgtatgtg	gtatggttta	tatgtgtgtg
124261	tgtgtgtgtg	tgtgtagcac	tgtgacagag	tgtgtgcttg	gcatgtgaaa	tcccctgggt
124321	tcaatccttc	cccttcagaa	tgtttccttt	ggaacaaacc	aatacatctg	gtgacgtga
124381	ccttttagtgc	ccctcctcca	ctcacctgt	tttctacagc	aaaagtatct	acaaaaagga

FIGURE 6YY

124441	agccgtgcct	caggaagtct	tcaccaaage	ttgaagagca	tggagagaag	aagtaagggt
124501	ccatcagatg	ccttgtgttg	aggtaagtcc	tccctcccaa	tcaaccacac	atgaatatcc
124561	tctgatgtca	gccccctctc	ctgagcatcc	tgtctctgag	accttgggaag	taagacttct
124621	gtgtctggga	ccaaaactac	tggggctatt	ttggcagctg	agccctctgc	ctcctctgca
124681	gggaaaaaca	gtaggaacat	ttcaaataac	attcatatct	gagatatttt	ctggctctgc
124741	gtatttttct	acttcatagc	acgtgtaatt	gtcctccctg	ataaaagtgg	acctagcact
124801	gctattttta	aagttttgtg	ttctacactt	taaaaggata	cacaaagtcc	tagcaggaga
124861	acgtcaatta	ccaagtacaa	aaacaaaaca	aaacaaaaat	aggaaatcac	catttggcca
124921	atgccacagc	aatgggtgtt	gaatgaggag	gggaagaaat	aatgaacagt	gtgttttagag
124981	agtcccgaga	tctgtctcaa	agtacttctt	aattagagat	aaaaataaag	atgttaagtg
125041	acgagaggac	cttgagagag	cagcatatac	caagtgtcac	aattaccta	gcatggggca
125101	tcaggtgccc	tggcaggctg	acgtactgac	tcttcacagc	aggaaagagc	acaggaggct
125161	gtgtgtgggg	ctgcaaggaa	tgacctccca	tgaagtacct	ggatcgagct	actgaagtgt
125221	gggaaaagtg	tcccggaaac	ggagaaatca	aggaggacag	gaatcagagc	tgggtgggca
125281	ccgctcctgg	atcaggaacc	acaaatggca	caagagaggt	caaagggcac	tgggaagaag
125341	gggcagatgg	tggcagtaca	gtgcaggctg	tacctcatg	gttcggacag	cttcacggg
125401	gttttgttaag	atgctaatta	gaagatgtca	gacacctccc	acccccacgt	gtgcaaaact
125461	gaagcagaaa	tatttcatat	aaaacaaagt	gttttttttt	taagttccta	aggtaaataa
125521	aagcaactta	gtgacatatg	gaacacaatg	tccccgacag	tttgacaata	aggcaacact
125581	cttccttcgg	gaggagagaa	atctctactt	tgcgtaggga	cacatcaagg	atatgcttct
125641	ttggaaggtc	ttcaggctgg	cagagctggt	caccaatggg	gatggtgtgg	gggcgtttac
125701	gttctcacaa	ttccccatct	atctcatggt	accctccagt	gcaacggaag	tggagggtac
125761	actgagtgtt	catgaagaga	aagccgttaa	cgagatgctc	aacgagaata	taaccatctg
125821	tcgcacttgt	cccgcattgt	ccatgccctt	ttcctagggt	gcaagcacgc	aagtgggtaca
125881	cagatacaca	cccaggcaaa	acatccatac	aaactaaaca	cacacacaca	cacccttttt
125941	gggtcccttg	gagtccttgt	ttatgggagc	agacatttgt	ctgtcttctg	tcacagatag
126001	catactctga	gcttggaag	tttaacatga	gattgatccc	actctttcca	agggggagag
126061	ggagactaat	gtgtaagcag	acagctccca	gtatcacaag	ccttagtttc	ctcatctatc
126121	actatgtggt	ggtagtggg	gcagtaaaaa	gaccttgtca	agctttgact	agaacaacct
126181	gagattcttc	attctgggag	tagccttaaa	tgtaactata	ttcactggca	aagaagaaca
126241	aactaaggcc	ccagggtgaat	gtaagaaggc	taccattttt	acttcgggtga	tgctgagtgt
126301	taaggcgtgt	atagcacaac	agaggagtac	tccaccgcaa	agggatgcac	tgtctctttg
126361	gagtcgaggt	gccccctcca	ggtaatgaga	cagaaaggag	tggatacagc	tgggtccaggt
126421	tcttggtctg	ctccgagagc	tatgctaagt	cctctgaatc	aatgggtatga	cacaagtttg
126481	ttctctgttg	agctggtgtc	ttacttcata	accagtgtct	atctctaact	cccagctca
126541	agaaatcctt	ctgcaggatt	ggagagatgg	ctcagcggat	aagagcactg	actgctctcc
126601	cacaggctct	gagttgaaat	ggctcacaaa	ccatccctaa	tgagatccga	tgccctcttc
126661	tggggtgtct	gaagacagct	acatgtactt	acataataa	aataaataca	tctttggggt
126721	ggagcgaacg	gggctgggga	gagagacgaa	aaagtgtctg	aagatagcta	tagtgtactt
126781	atatagaaat	aaataaatta	aaaaaaaaa	aacccttctg	cacagccttc	tgaatagctg

FIGURE 6ZZ

126841	gggttttcagg	cttgagcccc	ctttagagac	aggcagcaga	gacacaaagg	cctgccccaac
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126961	gccaggagcc	agactctagt	atattatgca	aggttgcctc	ctaaattata	atgcacttca
127021	tttgcagaga	gtccaacact	agactcatgg	tgtctggtag	cccagagggt	aacaggctgt
127081	gttcttcaca	gggaacatct	gaggacagag	acggaccaag	agggctcttg	acgggtggctg
127141	gtggtaagga	ctaggagcgc	ttacggcgag	ctgcttggga	gaagcctttt	cagggtggtta
127201	tctgagagaa	ggcacaggaa	gtcatgaaat	taggacctga	ggacttgtcc	aggataggcg
127261	cagtagtgag	aactgcatcc	ttgtgaagat	gggtttgacc	tctgctggag	gctacaatgc
127321	agctaaatgt	gtctttatct	taatgactcc	agaaacgcca	tgctgtgaaa	gaagcaggta
127381	ggtagaggga	ggtcaggaga	gcaaaccaac	ctcacgtgaa	gggtaactca	cagacttgct
127441	gttctactttc	cagaacccaa	ccctcaaaag	aacatacttc	taggggtgtag	ctgggaacca
127501	ggaagcagcc	agctctgagc	tgctgcttgc	ttgctctctc	acacagtggg	aacaagcaat
127561	gctcatctct	tttcaaagca	ctccaagcaa	ataaacacct	gcagaggagc	tgatggagac
127621	agacttctct	tactgggggtg	agtctattaa	acagaaaagg	aggcataaaa	atgataaacc
127681	cagaccgtca	gaacacagt	agtgcagaa	actgtcagca	gagagcgaac	tgcttccttc
127741	tcacgccgga	gggacttgct	ggattaagca	taatacaagt	tatgtatgct	cgctgatggt
127801	cctgagcggg	taagaaataa	ccagtgttca	ctagagtaaa	aagtgcagcg	gttctgaatg
127861	catgctggaa	agatctccag	caagggacag	tgcaggaaaa	cgggagcaga	agtctcagcc
127921	ctcgggtctgt	gtatcacctg	gtcacgcttt	ctcactgagg	gatattgggtc	ccggggcatg
127981	agaggagagg	ttcctgctac	ctagtgaactt	tctcaagact	gacttaccac	taacctgtct
128041	cctatagtgt	caggagcttg	agtctgaaac	agtcttcaact	aaattttttg	ctgtaactga
128101	aactggacta	agtaattaaa	aaggtttcaa	tattttaagct	cacattttaag	ttgggaatgg
128161	agggatgggt	tgatagtga	gagcactggc	tgctcttcca	gaggaccag	gctcaattcc
128221	tatcacacat	ggaggcttag	aagcatcttc	ttcaggagaa	gacctacagg	ggaactaata
128281	tccttttcta	gtgcacacat	ttaaaactga	ggcttagttt	aaaccctggt	ttaccagggg
128341	caggggtgtc	tgtgcacaag	aaagacagac	agagtttagt	tttagttcta	gacttctatt
128401	tgctcaccag	gaaaataaca	ttggtagact	ttaccaaaat	ctgcagcaaa	aactaaatga
128461	taaatgtact	ctcaaaacag	ggctcaatat	cccacagggtg	atcagggtca	acttttccag
128521	ggaccctggg	gtcagtggtg	tttatacttg	gaatgagaac	acagtaaagc	tgggactgcc
128581	aatattcctg	ctaggactct	ttattttctt	tatggcttcc	cctagcttat	ttagaagaca
128641	ggcttctgtc	cctcagggac	tggacttctc	aagagcagaa	cactgctgta	ggaaacagt
128701	tcttccaaga	gtcaaggga	ggaggaatgc	caccactgag	aggagatggc	ttgctttcct
128761	ccctcaagaa	aagagtgagc	aaggctccat	ccacggcggtg	ttccaacacc	ttcccacata
128821	gctggaccca	gatgtcatag	gggacttgca	gaaaggaagt	ttcaacatca	gctagccttg
128881	gcagatgctc	ccaagtcgtt	caaaaataaa	actcgggcga	tgacggtaaa	gatgggatga
128941	cggcttaaga	tggagcaaga	ggctttcccc	gtggcggggc	tcagcttagt	gctatgccc
129001	cttgccgtct	tgttcaggaa	caaaccgggg	cccagatgag	aaacgcgctc	gcgttgacca
129061	tccagaaagg	cagagtgtgt	gcttctgaag	gcagtgttct	ccagcctttc	taccttccat
129121	taaatgggtg	agtctgtcct	tgtgtggatt	gatgttattt	ctaaagcaca	caattcattt
129181	caagagggga	gaggcaggat	taagctggaa	atagtttttt	ttctatttag	aaaaaattaa

FIGURE 6AAA

129241	gtgtaagtgg	aaacgttttc	atgaaaatgt	ttttatatct	caacgttttc	tgcgagcact
129301	ctgatcccaa	tatatcacag	gactgagctg	gatgaggagg	aatgaaggca	aatgaatttt
129361	aaataaaaatt	gaaactgacc	ggctaggctt	tattctccaa	atctcatgaa	atagcaaagc
129421	tgagggggac	agagccacaa	ataaaccaaa	agaaaaaaaa	aaccaaacaa	acaaaaaaaa
129481	aaaaaaaaacaa	gaagcaactc	aacgctttca	gctcaaatga	gtttcaattt	tatttcaaaa
129541	tgttttataaa	tctagtttat	tttcatagcc	acaaaagctt	ttgaatacct	atgaatcaaa
129601	agccatttgg	cagaaccatg	gagcttgtcc	tagttgcttt	ctctcaaaact	cttccttggg
129661	cctgttaacc	ccttgttagt	cagtcacgca	cagcagggtca	ctctcagtac	ccagttctta
129721	ggggcactct	acagccttag	tgtgtatgag	caggcagagg	ctctaggctg	gacggcacat
129781	ttttaaaata	cacattttta	agtgtatgta	ttttttttta	ttagtcttaa	ataggatagg
129841	gaaaatgata	tatacagact	ttaactacta	attacttttag	acaaagaaca	aacagaaaac
129901	aaaaaacaac	aacaaccccc	tccccaaccc	caaaccaaaa	aaaccactaa	aaaacaaaac
129961	aaaaaaaccc	caatccacat	cctttagaga	ttatttttgt	aatctgcac	ttgatctgtg
130021	ctgctcaggg	gccacaggag	gccacaggag	gcctctgaaa	cttgaaacag	ttaagattaa
130081	gtaaaaagtg	caacgaagag	agctcaccac	atcctaatag	tttctcaact	actcaactcc
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130201	agtgcaggtc	agacagaaga	gcaggggtgt	ggctctcagtc	cagctctcac	atagctcatg
130261	ctggcctcaa	tttcgccatg	tctctgaaga	tggccttgaa	ctgatcttcc	ggctcccttt
130321	gggactgcc	ggtgtgtgtt	actctacaca	ggttacgtaa	ttgtcaggcc	tttgtgtttg
130381	tgtgcatttc	cctaagcaac	ttcatgtaca	aagctaagtt	gggtatgcat	tctctcccca
130441	ggcctggccc	cttactctct	accgtaaaat	gcttcttccc	taacaacccg	acttgagtgg
130501	ggtccctacg	tacagagaaa	ggagatat	acagaagaaa	gggcaaatga	ctgcttttac
130561	agggaaagag	catcccagg	caacacacgt	accagattgt	agagagggca	ggtgtctcca
130621	tccccgtgcc	tctctatttc	ctttccaaca	ctcagccctg	tgtgagcaga	gagtaaggcc
130681	cctctttgat	gctgcacccc	cctattataa	gcacaatgct	tgtaaccaaa	cagatgggtg
130741	gatgttttgg	aaatgactga	atgaaacaaa	agaagaatgg	tattctgtta	aacaacagcc
130801	aacatccctc	tagagcctgg	acacacgtct	ttatagagcc	tggatacaag	tctttatatt
130861	ggatagcaac	ctctttactt	tcaaatgcaa	tctcagagca	accagaaga	ctgattcagg
130921	tagtatacca	cagctcagtc	tcttccatgc	tcaacaatgg	ctccttccaa	atggcattag
130981	cgttgtctac	atatctgtac	agtcagagct	aatgtctatc	tgttcgtctt	taaattggccc
131041	agagcttttc	actttccata	tactattttc	cctacccttc	acctggatat	tgtctataca
131101	ataaaagagga	ggaaaccaag	gcttggggcg	aactgacttg	ccagatcaca	tagagttata
131161	ggatatataaa	tggaaaagct	ctggtaaaga	ttacagacta	tgttgattct	attagctggc
131221	tgtaggacag	ctgaatggat	ctctttcaag	gaagggcatg	atttgtaagc	atcccacacg
131281	tcagtgtctga	gtaaggctcc	taagtctctg	tggcttgctg	ccagccagta	gaccccttcc
131341	aggggtgagg	aactgggcag	agctcagcac	aaccagctc	acctaactgt	ggctgtcaga
131401	atcattggat	cctgcccac	atacatccac	tctgtggcca	tatcccgcag	cttcacaagc
131461	ttcatcagg	tggggcctgt	gtctgcaaaa	agaccagctt	gagaagacca	ggaggtgtat
131521	atcaagtacc	actcgttcat	tctgtctgtc	attcactagt	cagaacttca	aaccaataac
131581	cccagaagta	aagacaaaaa	ctccctctgc	cctctgggtg	cttgaacttc	cctcttggac

FIGURE 6BBB

131641	ccaattccca	caggttaggg	tttccagaag	ctttcaaaaa	aaaatcactg	atgaaacact
131701	agctcttttag	cttagcgtat	tatacaaaaag	gctgatttcc	gatttatcaa	agggttacca
131761	aataggaagt	ataaaaaaccg	tatgatcctt	acagggaatg	gtcaaagagc	agtgatcaag
131821	tccctgattt	acataattct	cagccattct	tttggcagac	ctctacagcc	actaacattt
131881	ccatctacgg	atgataaaaa	gataactctt	cccccttcct	gggtgcctgt	caggtataaa
131941	cttgaagccg	ggcacagtta	atcctcacia	ctcccccaagg	aagagggtatt	accatgtttg
132001	ctccagatta	agaaagaagg	gtcaggcctg	aattccaggc	atcagaattc	tactgagagg
132061	gaagagagac	agacagacag	ctttcactct	ggcctagagt	gcagagaaaa	ctactacttt
132121	ctgtgggaag	aaaagtcagt	caaccacagg	aatcacagaa	ggatccatca	caagaggacg
132181	ccactgtccc	ttaagcagag	acaggactga	gaagaacaaa	ggtactactg	ggacagaata
132241	tggagaggtc	agcttgagga	agtgtcttag	caaatggcat	caaggaggcc	atttcccca
132301	ctggagagag	acctcagatc	ctcaccacag	gagccaggta	gcactgtggt	acgcacacat
132361	accatgtgtg	tactgatgtg	gtgggagaca	caggcagagg	tggcagggtg	aaatcaggtc
132421	aagaagaact	gagagccagg	ccggggccac	tgctctgccc	tgcttatgaa	agccagggga
132481	ttaagtcaag	acttcactcg	tgattcaaaa	agttatctga	agacatggcg	ggaagtacag
132541	ctaggtctca	ccacccctcc	ccctcccccc	cagctctgca	tgctcaactg	aggacgtgcc
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132721	ggttaacaca	aatcaccagg	aaaagatgag	ccctgagcaa	gcgggaggtt	tgaggggaagg
132781	gtcacggaaa	aaagaagggg	taagacacat	ttgtcaggag	tcccaggctg	gtaccaagcc
132841	cactgcatga	caaaggtcat	tgagccctca	cagccataca	cagacatcac	ggctttcctt
132901	tcaggcagtg	gacaaggagg	ctaacggagg	tgaacttact	tggcctggat	gaggcagcta
132961	ataagggaca	ggagctggta	cacacatcat	cacaacattc	ttcattacgg	tctctttctg
133021	ccttcaaccc	cttgcccagt	ttgtaacttc	ataaggtggg	gtaatgatgc	caggaaacttt
133081	gtagccctga	ggcagaactc	tgccccagct	gtggccttcg	taacctcccc	ttactacaag
133141	cgacacagcc	acctccactc	aaatcctgac	gacagctcag	tatataacgg	tagcgtgtta
133201	catactaact	tggtcatttt	ggggaaagct	gcttgtgtgt	gtaaaggggg	gggggtggtt
133261	tggggccttg	gatcaaacia	atgagtaagt	aggaaaaaag	accaaccatc	cactgagatc
133321	ctaaccaggc	tttcataact	taagactgga	gtcttccaca	aactcacaca	ggtagccata
133381	gaagctactc	ctggaaatcc	aatcctggcc	agaacatgct	agggccaccc	acattcctac
133441	ctgcagcaac	cttcctttct	ccctcagcat	caaccctaag	atcctccagg	gctctgtagc
133501	tcagtaactt	tgagggtgt	taagtctaga	ggagcccaga	ggtccgtggc	ctcccagtg
133561	gggggttacia	ttcctacia	cttaaatcct	gtaaagcgtg	cccacaaggt	ccttcagctt
133621	ctcgccagaa	cttccaaacc	ttgcctttac	acttaacaaa	gcttcctact	aaatatctac
133681	accaaatttc	cgtacattag	tttttctttc	tgcttgtgaa	aggggtggtg	gtgggtggtg
133741	aactagtcaa	gatcggatat	cctctgcaat	accagcttct	agaaaagagc	gtttttgaat
133801	gggatgccac	gtgctgtgtt	ttgccatatt	gcctgcgctt	cctgcttgga	gccagagtaa
133861	cagaaacctt	gggactggg	aactgttccg	tgccacgcaa	attccactcc	gtatcttcca
133921	ggcaaccctg	tcgcaaataa	ttcatgtcca	ctacgccccct	accacacaga	atacaactac
133981	attgtgctgc	tagaaatggg	aaacctgatt	cagatcagag	aaggtagaaa	aacatttagt

FIGURE 6CCC

134041	tcaacacaat	actgccttta	tgaaaagggg	cgtgcgccgg	gtggtggtgt	aaatcccaaa
134101	cctgtaagt	gggatagatt	tcaagacgaa	ttttggaaga	aaatgcagaa	tcaaaatagc
134161	atccagcttg	actcagacca	gtaataataa	taacaacaac	aaaaaccag	ccagtccttc
134221	tagagctacg	cctgttttagg	ctgcgcgggtg	ctcttaaatgg	ccagccagcc	tgttctcttg
134281	ggaaatgggtg	ctgctgtctac	agcgtgactt	gctttgcgtg	ctgcaataaa	aggaaaacaa
134341	gcttgacga	ccaatagct	tccttcagtt	tgtgcctagc	agcggggaga	aaattaaaaa
134401	aaaaaaaaaa	aaaagcctga	aaaggggtcc	tgaggcaagg	tgaatggagg	acaggatcct
134461	agagaacagc	actgccctgc	aggatttttg	taaacagcag	cctgtaatgg	ccacgggttag
134521	agaaagaaaa	acagacatgg	aggggaagcgt	gtttacaact	gcagcaagg	cgaggaggcgg
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134761	ttgcgggatg	ccagcttgac	tgacaagtc	tgcagccaat	cgctggttg	gcccttagga
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134941	cggtgccagc	tccctctggc	tggcagggcg	gggtggggaa	gcacccgaga	caaaaggaat
135001	cctggctgcc	acagcgggga	gggcaggaag	ggggtggccc	caaaagtcag	cacctggagg
135061	cgtcgttttg	agccccccc	ccccccccc	cgagccagaa	ctgctgactt	taagccacac
135121	atcgtttttt	tgttttgtgc	agaacctcaa	aggttttgtt	tccatcattt	tacttcttg
135181	tatggctgac	gaagtctcca	atggaatgat	aaccgattta	gtcgcttttg	tccagaagcc
135241	ccttcctcac	cgtcgaataa	aaatttaaaa	ttgtctttta	cgaaagttgc	tttaaatcac
135301	acactaaaat	tgttgacta	tacaatacgc	cattaatggc	atgctggtgc	accagacaca
135361	cagctacatc	ttttgatagc	aagttttagg	agctctgagc	ctattgggag	cagctgggat
135421	ggagaacata	cacaaaaaga	aacaacacat	gacggcggtg	ggaccacttg	ataagaaata
135481	agcggttaac	ttgccttgcc	catagtattt	ctggcagtc	cacttgaatc	tccattccc
135541	tactccagc	ttcaccatcc	ttacaggacc	ccaggcgag	gaaaccatct	gctcttagga
135601	tggggggctc	tgctcacccc	gcacataaac	atgctcacia	gtcgctatcc	tgagcaagcc
135661	tcctcaatgt	aaaaggggac	caggaggcca	gccaagccgg	ctctctccac	ttcaatgctt
135721	gttgaatata	cagagaccac	gttgtcactt	ttcacaatca	agatatatcg	gtatcacgat
135781	atatcgataa	cgggtacttt	ataggagata	acagtgcata	ctggccacct	ggcattctcc
135841	tttgccattc	tagtccctca	cctctgctat	ctcctatgga	gcctgccaca	agcaacccca
135901	gtaaatgttc	accccaagtc	acctttgctg	tataaaacat	ggatttaggc	tttccttggt
135961	ccttgacagc	tggcatcaga	ccccaaacca	gtagctactt	tcattgtagg	caccctccct
136021	ctggacactt	tgttctgttc	ccaggctccct	gcccagacca	cacacatcat	ttactcaac
136081	gttgggtttt	atgctttcta	gactttacct	ctgctgccc	aggagaggcc	actgttctcc
136141	accgttctcc	ctggcccagc	taccccaactt	cttgacagaag	actgaaattt	gttttcttag
136201	cactaagtct	ctgatagggc	tttaatgctg	tatttagact	ccactcctac	gttaagaccc
136261	tgaacttcct	gaggcctgga	atggtattat	cttcagattt	gggtcttcag	tggagatggg
136321	cttctactaa	agtgcccgct	gcaaacttgc	caaataattc	taggattctt	ccctagcatc
136381	ctgagtatgc	ctacccctga	aaatctttcc	ttacacacgt	gcaattaatg	tgttttctct

FIGURE 6DDD

136441	gctgggtcaa	caactctgtt	ttctctactt	ggcaaatttc	cactctgcct	aaaatcactt
136501	cctctcttgg	catacctttc	acaacctccc	accaactaca	ctgtgtacca	agagcagaga
136561	ggtctctttc	cgttcttaet	tctctggcca	gaattagcta	caaaactaga	actagcatgg
136621	tttgttggta	aaggaagagc	ggagaggcaa	aatttcagaa	gtgggtatcac	ctgtacatct
136681	gcataaccaa	cccattgcca	tctgtagggg	tgaagcagcg	ccatgctccg	tttgtggctg
136741	tgatgggtctc	cccctgcttt	ctgtctgaag	gcctctgtct	ctgagggtgga	ttcttactcc
136801	cccctccatc	tcaatcagag	atctcctcct	ggctcttatg	ctatcaactc	tgcacatccc
136861	cgattccttt	ccaccatgac	actgaactgt	catctccttt	tctatctgac	cagtcactga
136921	cttgetcaca	gtttagtctg	tccgccatac	agccatatcc	agtgttctaa	gaattgtggg
136981	gttccacagc	tggggctcag	tctctgctta	cgccctcatg	tgacatctgt	catcaacctt
137041	ccatctttct	aagcctttta	tgggtggaaaa	gagtaaacct	gtagataaag	agtgggtacca
137101	gatttcacct	taagattaca	gatacttggt	tgtgaataga	atttgtttctg	gtacaggcaa
137161	atgcacgggt	taaaatcaaa	actaacaaaa	tatacagtat	attagctggg	aacaaatagc
137221	caactaaagc	aatgtaaagc	tgggagtcctg	tattctggct	caaagcccat	cacgggtgagg
137281	caaacatgat	ggcctgagct	tcaggatgct	cattaccaca	ctgcatcctc	agtcaagaag
137341	cagagagaac	tggttcccag	gacaggggct	ggtgctgcct	aagtcttggt	cttcccgtct
137401	ttaagttaac	acggcccttg	gcaggcatgc	ctgaagcttg	acttttcggg	gattacagac
137461	cctatcaaac	accataaata	ataacaccac	acatatatta	catatataaa	aactataaca
137521	cagaacactc	aattggcttt	cagtaagtgg	gctatttttt	tttctttggt	gcttaatgta
137581	ttctagatct	gtctatgttt	acaaacggta	tgtcttctct	actaacaat	aggatttcaa
137641	attaaaaagc	tgaacagcaa	aggagacagt	gaagagacaa	tctgttagct	tttcatctga
137701	caagggatta	atatactgaa	tatataaaga	acaaaattta	aatgtcaaaa	gaacaaataa
137761	tcaaaccaat	aaatgggcaa	attaatcaaa	tgggcagttt	tcaaaagaag	cacaaaagac
137821	caatacatat	atgagaaatg	ctcaacacc	ttagccacca	gggaaatgca	aatgtaaacc
137881	acaccgagat	tcaaattctca	ccccattcac	aatggagcac	attaagacaa	ccatcaacaa
137941	acactggcaa	ggatgcaggg	ggaaatgtgc	ctgtacacat	tgttggtgga	aataaaaaatg
138001	aagtagttta	gatactatgg	aagcctatat	ggccaaaaat	gtgctactac	ctcacttcgg
138061	gatgtacaga	tgtgatgcta	agtcagcaca	cgacacatcc	acgttactat	ccacatcagc
138121	caagcaatgg	gaccaggaaa	agatgaagga	aatgtgatgc	acacgcacag	ctgtgtcaga
138181	tgtcaaggat	aaaaccaaac	tatcggcggg	aagttaagga	gtggacaatc	atctgaagtg
138241	acgctggcca	gaccaaagcc	tatctcatct	gtgtattttt	tttttttaat	gaaaataaaa
138301	gggaggcttt	gtacagaggg	aggaaatgat	acagaaggga	aagaaggggac	aaacagaaga
138361	taatgggtgg	taatcaaagc	acattttgta	tatggatgaa	agtattaaaa	caagaaaaca
138421	gccatcttat	cttcacagac	agcattctgc	tctatagata	accctgagtg	gtccccaacc
138481	ttgcctgtgt	gtttaaatca	ctgttacttc	cccagaagcg	gatttagttg	gtttagaggc
138541	tatcacgtga	gccttgaaat	gaaacagtag	aaacaaagtc	ccagatgatt	ctaattgagga
138601	ggcaggtttg	agagataaca	gtaaacctat	ttattatccc	tctactgata	gaacttgtca
138661	tttcagacaa	caccatgtaa	agtggcctaa	tacacctgtc	agttcacccg	tgtgctgggtg
138721	tgtctgtggg	tgatcatcct	gggagaatta	ccatgtcaaa	gggcacaggc	actggtacat
138781	cagaaatgct	ggcaaattac	attccattac	acacacacac	acacacacac	acacacacac

FIGURE 6EEE

138841	acacacacac	acacacacac	acacaccatc	ttccagcccc	ctctgccaaag	tggggctggt
138901	ttcctataga	tctgtcatca	gaatctgtga	ctgaacattt	tagattttca	agcatggggg
138961	gctgggagga	gctctgaata	ctcataaaaa	ggacttttctg	atgtgttcta	ctacaacatt
139021	tctgggttctt	ttgtttgttt	gttgttgttt	acacctttat	tatgaattca	cttagagtct
139081	aacaaggatg	gacccatgat	ccaacatcag	ttaagtaaag	agcgtatttg	ctccaatgat
139141	ataaaaacgtc	atcttattaa	acaacgaacg	gccacatggt	ctcacatcta	cggctggata
139201	tcatattctg	tcccttcaca	tactggcacc	ttgctagcta	tttaatcatt	aattacttag
139261	gcaccatggg	atgctttaat	tatctggtaa	tttcgttggg	cttgttttagc	actattacta
139321	ttatcaccat	tattattggt	gctattattg	acgactgtag	agtcagtttg	tataattaaa
139381	agaaaccaca	tagtatttga	agtatattaa	ctttataaac	acaggaagaa	ctgacatctt
139441	gctaacattg	gttagactcg	cattaaagggt	atgggttctat	catttatttg	aatttatatt
139501	tggcagcatt	ttgttcagta	ctatttttct	tattaatttt	taagcatttt	tctctgggaa
139561	aaacttttct	tctatgatgt	tgtatagcaa	attatttgca	cactgtagcg	ttatcacatg
139621	actaagtctg	gcttatgtta	ttccagaag	atgcttaatt	ccatgccctt	agaactctgag
139681	catgtatgca	catgtgtgaa	cccacagggc	aactctgggt	gctgttcctc	cctccaccct
139741	atttcagaca	ggttctcttg	ctgggctgta	gcacaccaat	gaagcaaaca	agtggtctggc
139801	cacaagcccc	aggggtctgt	ctacctctgt	ttctacataa	cggagatttc	aagcttgtgc
139861	cactgtgccc	gtgattttta	agatagattc	ttcgacttga	agtcagttcc	ccacatttgt
139921	gtggcaatca	tgccattgat	ggagctattt	gccaagttcc	ctgtgctctt	agaactctca
139981	ataaataaac	gacaccaaag	gtcttttccc	ctcactagta	tgaagtttat	tatttttttt
140041	tattggatat	tttctttatt	tacatttcaa	atgttgtccc	ctttcctgct	ctcccaaaaa
140101	ccctctgtcc	catccctcct	ccccctgctt	ctatgagggg	gttccccccac	ccactcactc
140161	ctgcctgggt	gcctggcatt	ccccctagact	ggggatttga	gccttcacag	gaccaagggtc
140221	ctctcctccc	attgatgccc	aaccaggcca	tcctctgcta	tgtgtgactt	gagccatggg
140281	tccctccatg	tattgggtgg	ttagtccttg	ggagctctgg	gggtctgggt	tgcttgatgt
140341	cattgttctt	tcaatggggg	tgcaaaccct	ttcagttcct	tcagtctttt	ttctaactcc
140401	tccactgggg	accctcattg	gggaccacat	gttcagtcca	atgggttggct	gagagcatcc
140461	acctctgtat	ttgtcaggct	ctggcagaaa	gtactttttg	gcattccacaa	tagtgtctgg
140521	gtttggtgat	tgtatatggg	atggatcccc	aggtggggca	gtctttggat	ggcctttctt
140581	tcagtctctg	ctccacactc	tgtctccaca	tttgtcccgg	tgagtacttt	gtaccactta
140641	ctaagaagga	ccaaagcact	catacttttg	tcttcttctt	tcttgagctt	catgtggcct
140701	atgaattgta	tcttgggtat	cctcaacttt	tgggctaata	taccaagggt	ctaatacaact
140761	caattcaaac	caataaattt	tgacttgaca	tttacaacgt	aagcaattca	gatgtagggc
140821	atagcactag	ctggtagagg	caagactgga	tatggggagc	ttctaaccga	agagtggaaa
140881	gtgttggggg	aacaagactg	agggcttggg	gcagtgtggg	tgaggtggaa	agctaactgc
140941	gtgccttagt	gcatgcctta	ggaaagtatc	tcagctaggg	tactatagca	gctatgcctc
141001	tatctatacc	agagaaacct	cacagagctg	gacatacaga	tgagctcatt	catgtctgat
141061	gagctcattc	atacacgtga	tagccatgat	gttctgctga	acgtttttatg	agataaaacc
141121	aagtttctctg	tttcagagct	gtgtgtttta	aggtatgtcc	ctttatgaac	attaaacaac
141181	cagctgtatg	tggtggtgtc	aataatccca	gaacaagagg	gctcatggaa	gaagggctctt

FIGURE 6FFF

141241	aacttcagac	tagcttgga	taaatagtgc	aaccatgtct	caacagacaa	acgtaactaa
141301	aatatcatct	tacaaaccaa	gaggtcccg	cataaatatc	agagcagagc	tgcccagcct
141361	tggctctcatt	ccagacctct	taacctatga	cctcttgggc	tgaggtcata	gtcggcatag
141421	ggaagtgcct	ggctagtaac	aacaacacag	tcacacatat	ctgtcctcaa	ggagctcctc
141481	gagtaaaccac	ctttgctctg	atgatgacaa	gcatggccac	agtcctctgtg	cttgcagaat
141541	cttgggttaga	aagctcccaa	caccaccatc	ttccactagt	tagcctctgc	tgttccccga
141601	actgaatccc	taagtaccga	atgctctcct	gttccacaca	gaaacctctg	agaagcccg
141661	tttacagaat	cagagactgg	gccattcctc	gaagcattgc	taaagaactg	gcaggagtca
141721	ctcaagttct	caggagctat	gggaagataa	gattctcccc	aatgcggttg	cactgaaaga
141781	cagggcagta	aagaacaatt	atgcctaacc	ccgatttctc	tctgaatcca	tttattactt
141841	ctcaatttag	gagagtcact	cttgtagctg	caccctggcc	actactcaga	aaaacattag
141901	tgtatccaat	gatcccttta	gtaactactg	gagaagcagc	tagctgaagc	atgggggaat
141961	taaggaagac	cttaggagtt	caaaacccca	aagtacaaac	gcactgtcag	cacacggaga
142021	gatctgtttt	tttatgcatg	ccttatgcaa	actggcctaa	gctaaaaaat	gttataaagc
142081	attttgagga	gtaaaatttg	atttcaggg	taaaaagaaa	tgtacagagt	caaagaatct
142141	ttctgttggc	tgataacaga	gactccttgg	aaaaattgac	atttcttttc	gagaagcaaa
142201	aggtggagta	gaaatagtgt	gagcagcata	tgatgtcttg	tgacaatgca	gagaaggcag
142261	ttgggagctg	ccactaatgt	cgagttttca	ttaggctcat	atctccaact	tttggttttg
142321	tgaggctgca	actcaattgt	gtagtaaaaa	aaatttgtag	tccattaggg	tgcttttaat
142381	attcactata	tctactatga	aataggagct	tagatgatga	tgatgacaac	aacagtaata
142441	gcagcagcta	ctttgaaaca	ctcacaggca	ttgtgagttg	gagccctgag	cactaaccac
142501	tgtaatttgc	tatcaggacc	actgggtatg	gcattcggaa	aacggacata	tgcaatcaat
142561	gcttgtgaca	tgggagaaca	aaaccttgtc	aaccaactgc	aaacagatgg	ctcatggaca
142621	acaaaacctt	agagaaaaat	gcaggaatat	cagcggggca	gtggggagga	aaagagaaca
142681	ctttccagac	tgtatgcata	gaagggcctc	aaaggccgcc	atgacagatg	tgttcctgta
142741	tcgggggtcaa	caaagaataa	agcccatagc	acaattctta	ggaaaagtgt	aaatgcctgt
142801	tttgtaaata	aaacacaccg	acttaaattt	ctactactta	attttataaa	ttccgcttaa
142861	atatgtgtct	aaatacactt	ttttcccctt	gttttgagac	atggctctct	tacgtagccc
142921	tggctatcct	agaactagtt	atgtagacca	ggctgacccc	tgacgcgtgg	ggaccctttt
142981	gcttcttcat	ctggagtgtc	gggattaaag	acatacatca	accagctggg	cttaagtgtc
143041	tagattttta	acttctttat	atttattctt	accctcagtg	ttattgaaca	ttgactgtgc
143101	agacttcaga	gtttaccaag	tttgaggggc	tggccaaatc	cttctggact	tactgagaaa
143161	ggaacagacc	caggacaccg	actggagcta	cacgggtggc	gccatggcgc	caggccgaga
143221	cacgtggatc	cttcggcttt	gcttctgtgt	ctcagctacc	tcagaggttt	gctgtggaat
143281	cactagtatt	ttaaacaatg	caaacgcaat	tacagttgaa	gcacattctc	taggagaagg
143341	aaaaggagat	tggcatgtag	aagcttcatt	aaacttttgg	cctttttcaa	gctaaacgag
143401	tcttaagaaa	agccataaaa	agttcccgtt	gattgattta	aaaacaggct	tttttttttt
143461	tttttttttt	ttgcaattag	cagatctaaa	tctacgaaag	ggagaaacac	gtacggcact
143521	tttagttaac	ttcctgcttt	ctctgtgtat	ttcaaatacg	aacaattaag	actctctata
143581	gacacacgta	cagatacaca	aatacttagc	aggacgtaaa	cttctatttt	ggcttcatga

FIGURE 6GGG

143641	aaatggtagt	tatgtttcca	cacacacaat	gaattctggc	agtttattta	caagcagaca
143701	tcccatctgc	accagggata	ataccctcaa	ctatgtgaca	tgctacatcc	ctcctgaaca
143761	cagtagggct	aggaaagcac	tgagaggata	taaacatgtt	cagggttac	aatattcctt
143821	cctaattgctt	ctttcccca	cttactgtaa	cgatttactg	gaaagattgg	actaaattac
143881	cgtcttccct	ttatcgtecc	aatttgtttg	catttggtat	cctctccttt	ctcttggaat
143941	ctcccttgct	tttccttttg	tcagtaagtt	aaattgcttc	tcctcccaca	tgcataaaaag
144001	cattaatttta	taaaacacat	agctgtatgt	catatctcat	gtaattctat	tttacatttt
144061	accactagct	agacttatct	aacatgaaca	aatagatatt	atttactgta	gccagaatga
144121	gaattatcta	atgccactta	catagccaga	aattgatttt	tgattaatgt	ttaagcgaaa
144181	agcaaacaaa	cccatctgct	ctgaaaacaa	acaaacaaag	aggagcagag	cactgagtc
144241	tcggttcgca	ggcattcctg	caggcctagt	gcctcagcgg	ctgcagaatg	gggcccttca
144301	ccccagggga	aagcggacca	ctgacaagaa	caggactcca	ggcccagact	ggagtttctt
144361	ctccagcaag	tgttgagtaa	aagatttttt	acttattggg	gggggggggg	agacgggacg
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144481	catcttgggc	gcccactgga	agtcaaggaa	gttgtaaatg	gtcatgtttt	ccttcttccc
144541	tcttgttcac	taggtcagtt	aaaagacaaa	gaaaaaggct	gggcatgggtg	gtgcatgcct
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144661	tctacagagt	tagtttttagg	agagctagcc	ttcacgggtca	tctgcccaca	cacacacaca
144721	cacacacaca	cacacacaca	cacacacaca	aactgacaaa	atgtaaataca	agaaagaaac
144781	aaaaacaaag	aaaaacagcc	ctgtgccatt	tattcttata	atctctgcgg	tttcctcagt
144841	atgaagaaca	gagtgcagtt	tatagttctt	gtccactcca	tttatattga	atatataaat
144901	tattttctaa	gatacttata	tacataacca	aatttgtttt	taacaaattt	aatgaaaaca
144961	ttcagcatga	aactaaatag	cagtaagact	ctcagatggg	gtcttaggtt	aaaaacaaga
145021	ggagcactcc	aaccttttct	ttgacaagggt	ctcttgatc	ccaggctaac	ccgtatgtag
145081	ccgaagatga	cttttaacag	ctgacccagt	cccttccacc	gcttctgttg	tactggatcc
145141	cagggcctcc	acgcacccca	gagaagcact	ctaacaactc	actgccagct	aagctacagc
145201	ccggcctcct	ttggagcact	ttcaacagcc	aaaactgaca	caatacatat	gcatcaacaa
145261	gcaagctgaa	caccaccac	cggtgtgctg	agagaagaga	ctcaaactca	caactttcaa
145321	agtcccatac	caagcctgat	gatgcaaaca	caacttgaag	tcttattggc	gacgtccgg
145381	atactaccag	ttgctaaagg	aacagagtgg	gactgcgact	gcattctgaa	acattttcta
145441	caaatactca	tcttgacga	agaagtaagg	tgcaagtggc	tttatgactc	tattttccact
145501	ctagacgctc	aggctcaagg	cagagcgctt	agatcctgct	gcacttccat	aaaaacaagc
145561	ctgattttatg	ctgaaagact	ttaatgacaa	agttgtcctg	atgtgcgtgc	gtgctgtgtg
145621	gcacgcgcac	acacacagac	acacagagag	agagagagag	agagagagag	agagagagag
145681	agagacagag	agggagagag	agagagagag	agagagagag	agagagagag	agagagagag
145741	aggacctaga	gaacaagggc	ctttgtcttg	ctctgccgaa	gcacagttag	catttctctga
145801	gccctgattt	agcctttaac	tgatgggtct	ggtttggtgct	tcaacagaaa	taattgcatg
145861	actgacaaaa	aaaggaaaag	caaacaagt	cttaataaat	gattgttggc	gtaccaactg
145921	caccaacctt	ttctaattac	aactctccat	tttattattg	tcaggcaaag	tgagtacctt
145981	aacttgaaaag	gctaagctga	gggggaaaag	cctttttgtc	tctactttac	aggtttgttt

FIGURE 6HHH

146041	ttataaacac	tccctcagtc	cccccaaagc	aacaggaggc	aggcacaatg	accctactga
146101	ggagtacagc	ttttacctcc	atggggacaat	agatttgcttt	tctgttagcc	cctggggagta
146161	aaaccagctt	taatatggat	gccctttcct	tatcaaagac	agcagggtaa	tacggggagg
146221	gctgccaagc	ttgggttggtg	cggacttggc	aggtatgagg	cctacctcgc	ttctacacca
146281	cgtcactcaa	ggaacagagc	agaagaaaca	cgttctggaa	ctttccagag	aggccatcct
146341	tgttcatgta	ttctagtcca	gagttctact	tctctctaca	gagatggatg	aaacaaaagc
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146461	aggatgcaa	aagtggcttg	tttccaagt	acaaaatgca	cctttgctgg	ggaagctagc
146521	aaggtagaag	cccctgttca	gaacttttca	aggagcagat	gaagacaaaa	aaatgccacg
146581	caatggggga	cgggaatcctc	tagatgtcga	gaaaaagcag	cggccatgcc	cagggagcag
146641	gactagagag	aggcaagcca	actcctgctc	atggcaaggc	ggcttgccctc	tccagcgcac
146701	tctgcagatg	tttccgcacg	ttgtttctat	agtctgaaga	cactccgctg	gcagtgtatt
146761	gttggatgct	ggcagaatct	ctagtcaaga	ctagcaactc	cacctccttc	ctgacatcag
146821	caagggggaa	cacaccagga	gccaggagac	aaggtgtagg	tgcaggagac	aaacaccgtg
146881	tgtggtccag	agctgaactt	agtctggag	actgtcctgt	caggaaaaagt	aaaaaacaaa
146941	ccaacacaaa	aatccaggag	gtgcagagg	agaggcagag	gcaggcgggt	ccctgtgaat
147001	ttgaggccag	tctgctttac	acagtgaagt	ccaggacagc	aggggctgta	tagagagacc
147061	ctgcctcaaa	aaacaacaca	aacaaaacaaa	aacaaaagaa	gggggtgaag	aagagagggga
147121	gaaggtgggg	cgggggccag	gggttgggta	tggggaggga	aacttaccct	ggtggagaca
147181	gtgaaactgt	tgtttgccac	tgctctctct	aggtaggggc	taactgtact	cctgactaat
147241	cttcaacttg	ctgtattaat	caagttgggt	tccaactact	cttggaaacta	caggtgcaac
147301	ccaccacacc	atcgaagtct	tggcgcacag	ctctaggggg	cataggaat	ggctttcccc
147361	gtgccttgta	gaaatggaac	tgaaggtca	tcatggcggt	aagactgttt	tttagctcac
147421	actctcacac	tgcaaatgac	ctaattgacac	agcagggcct	ccggtaccat	cctcactccc
147481	acgctcccac	tccatcctaa	tgttagctca	cttactcagt	ctaccacagg	cttaggtgac
147541	atctgaagga	atagcatact	ataaaaaacct	gacttggcca	ccacagcatg	caagctctaa
147601	ggcaggtaga	acatactggg	tttttggtgt	tggtgtttgt	ttttgtttgt	ttgtttttct
147661	tttccagttt	ctccccctcaa	agatcttcac	atcatgagtt	atgatactcg	ttcattacat
147721	cctcctagaa	tggctccagt	caagaagaga	aggctcaatg	acccacccca	actgcaaaag
147781	caaaaattatc	ttagaagaag	aagaaaagga	atggaccatg	taattaaaat	tacgaggggc
147841	agtgacttac	agaggtaaaa	agttaatcac	aaggactatc	tcaaagccta	gtgaaaaatg
147901	gggttttcag	aatcagacct	gtcaaaggta	accacgagat	gcaataatgt	ggtttggaag
147961	tctgggtgac	gggcagcagc	aggaacagg	caggggaagg	gggagtaaat	tgtttgcaaa
148021	atgaaatgca	gaatgaaaga	ccatttgagc	acacaggcat	ctactctaaa	acctgcaaat
148081	acctcagcct	cagtcctctc	acggaggact	ggggagtgtg	cactcttctt	gttgctttag
148141	aggaggtctc	tgctgcagaa	gcagggtggg	tgggtagagg	ttcctactga	aagctacttt
148201	gggtatccag	caccccgggg	ttggtagcaa	ggagtccctt	taatgaataa	atgaagctgg
148261	agctttccag	atgtttcatt	aatggggcac	ccagaaccaa	tgctgctgca	cccgtgcccc
148321	ctacaactac	taccggcatc	tgggagcact	tagctctaaa	gtaggttaga	gctggagtgt
148381	aactgtatct	atgtgaagac	tgagtttgta	tatgggaagc	tcagcataca	gcaaggccct

FIGURE 6III

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148441 acgtgctggc tatcactgca atccaggcaa aggccttcctg gaaggctaac gaactataac
148501 ttggctgata atgccgttcg ttcattggctt cgtgagcgc ccagtcctcg tggccttggc
148561 gagagttgga gttgagtgga gactgcaggg acggaaactt ttccagcaag aaagagtcctc
148621 tcttctccca cggtcactaa ggaggatact tgtatttttc caggatcagc tgagtcgtca
148681 caagaggaga gtggaggggc aggaggagac cgcctcaggc ggcgacaagg gagcccagca
148741 cctcccctga agttgcagcc agctgcttct tggctggaaa cttatttaag ttgtcctctg
148801 tcccacttct gaggtctctac agggatgctc tgggcactgg gatccatgaa caaacaggga
148861 tgagcggagc gaagggaaca ctctgctcag atgagtctgc ctctcaacgc cttttgccct
148921 cactgtgctg gtggggagtg ggggtggggg aatctgatgg gcaaaagcaa ggggaggaga
148981 tgtgactgtc acgcagaagg tgtgcccagc tcttagaaaa gtgaagaatt caagaaagca
149041 aacacaagca tctctcctgc ttctactccc tagttatccc aatcccaatg aatcttggaa
149101 taattttagt tactgacact ccagatagca tcttcaacag tgaagccaga agcagagcaa
149161 agggatctta gtagcatgtg ttaattttca tgcaggatgc aaaacaggca tttcaacttt
149221 catctttctg gatgcagcta cagtggccac catccctgac caggactctg tcttcatctc
149281 atccttctaa cagttatgca tcaagagtgt atcagtaacc atatcaccat gcaggatgtg
149341 taacttgccct cttctctccc gtttcaggac agccagccac tggaaaagtct gaggggcccg
149401 gctaactgaa atctgcagat acgcttagga atccctccca accagccggg ttaacctcca
149461 tatgtttcta atctctaact tgtaccctt gtgcagctc aaagagatac atgtcacttc
149521 ccgactgat ctgacaaccc tctctctgag aggcataaa gcaccctttc ccaaggatgg
149581 tcacttacag aaagctgcag gcaaagtaaa tccaagtctg ggcagcatat aataaatggc
149641 tagtggcaga taatgaaaag gctgaaatca caaaatcaaa attctttcca ataaaggtga
149701 atcccacacc tattcattaa cagtccccta ctgtctaaga tgtttgtgta agatcaatga
149761 ataagccatg tcagaagact tgccgactat ggaaactatt tggataatgc tccaaggggc
149821 tcaggaatag gacagatcca atttagaact gggggggggg gggaggggga cactctgtct
149881 ccaggccagg tgatgaagac ataccaggg tcattctttc accatgacaa agacatctcc
149941 attgtttcaa agtcactttc agtctcctac aaagtatatc ggagaatagt gtgccatgtg
150001 aatgaatggt caaacttaag caagggtacc accttccttt cagaaacaac cagagaaata
150061 cgaaactgcc tctggggcat cgcaataagt agctggggct ggtaagctcc aagtcttacc
150121 tctgaagtca tcagtaagca tgggacagtg aaggctcaga cataacatct catccaagta
150181 atcaagagta acgccaccca tcacagatgt actggtgcca ccctgggcac agtgacacac
150241 cgagggcact gtataccctt cctgaaggag ttaatcactc aaatgcacaa acctaatgtc
150301 acgagagacc ccagtttaag agcaggttat ggggtcatag gatgagtgtc cgttaaaagt
150361 gacaacacca tgcaaaatca gcaagacaag cagacccatc acagcctcga gaagaccaca
150421 cagataagac acatccacac gaccaaagac ttgggaatga aagaaagcac gttagtggga
150481 aaactggtgg aatttaataa aagcctgcta agaataattg gccaatgtta gtgtcttggg
150541 tgtgataact ggattatgat tatgtaagat gttaacatga ggagagctgg gtgacatttc
150601 aggaactctc tgtgccgttt tcaacttttt ctaagggttt tttttttttt tttaaatgaa
150661 gctgaggagg aagcagagag cctgggaggc tggcttactc tttagtgtgc tttgtcactt
150721 tgtccctggt aagtagggtc attatactac agagctggct tgtgttacag ctctccgat
150781 tttgctccct ccatgtcttc ataacttttg gggaaatcgga tgttactcag gtgagacaga

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FIGURE 6JJJ

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150841 agatgagtga agtcacaatg tcattggaga ttagagagag aaagagagag agacagacag
150901 atagacagag agagacagag aacaaacttc aaattttataa acacattatt cttccacaaa
150961 ggtccacatc acacactccc cccattttgtg caccaccctt gacaacacag ctgtgtgggtt
151021 ctctagaaga tgtagttgga accaactttt agcgtcctaa ggaatgatgt catccttttg
151081 tctataggag ctgggttccag aggtttttgtg gaacagcttt ctttccagaa agcagccagg
151141 tctgaagctg ctcagacttg ctcagactt cttctgtcta cagagtacgg caacatctcg
151201 tctacaggga ctgcgactgt tccggctcct tgatcatcct gttccctaaa ctttaacttcc
151261 ttaagttgca aaacattttac tcttggttgt ttgggtcctt cctcgggtata gaaattcata
151321 ttctctgttt ctctctctct ctcaacgggg ctgtggactg aacttacgtg aacttcttgt
151381 gtttgcctgg ctttctactga ccctacacct tcagtccttt tcctttgtac ggagaaagaa
151441 atcattaaag agaaaattgt tccttaaaat catccctttc cccatcctcc aagccttctg
151501 tagaaagtgc agtaatgaaa aaaagatgtg tactcacact ttgcttgtat cagctatgga
151561 tgggttccta cctatcttat tgccaaactg aaaaactact tggaaaatgt tccaatgggc
151621 tcggtagaat aatagctcca agtcagaact ggggtgcatg ggggtgtgtat agtctccaga
151681 gtggggaagg ctgggtactt gtcgggtcct gccctatcag cctaccagtt actacgtgc
151741 tcttccctgg cagctcagtc agtgtgcggc gtgggtctctc ctctggcca tctaaaatgt
151801 ctgcagttat tgtaacacag gatgtgattt ttagatcaat ataaacctgg tgaacagatc
151861 aatcctgtcc ctcataaaca caggcaagta tctgggtatc tagacgggtca tgacctctaa
151921 cctctgaacc aaattctcaa cccaaacct ctaggcaga ttgagcccaa gtaaattgcat
151981 gtgtgcagaa gtagaggttg actccttctt aactgctagg tttataccag ctaccttatg
152041 ggggtgcccc aataccatct ccaactaaaa ccctttcagt ttaaagggca aagggccctt
152101 aggtaaatgg ttcatttggt gaggcctcct ctctttgagc agtcacatga atccacaatg
152161 gagaaagaga ctctaactcc tgggatttct ggtaacctaa agagttccat gtctttccta
152221 cacaattggt ccccagacgg ctcaagtctt attgaaccga tatatcaatt ctgggtggagt
152281 taaaatgctg agtaagagaa aataaagctg aagtaagcgt aaagacaaga gttgttttgt
152341 tttagctgga acatgattct ttgatgagaa aactctcata aacaggaaaa agcacattat
152401 tgaagctgaa gtgtttgatg gcttccattt tcctaagagc atttcgcctt agacacagggt
152461 gataactgtc aagagcagcc agagtgattc ctctggatat ttctaccata aatatttctg
152521 aggtcctact gtgtgccagg gattgtagt atagtgggga taaaagata ggagttgagg
152581 ctatatacac tcttttcaaa ggcaaagtct cgagctctaa acgcacgact caaacacaaa
152641 accatgatat gcaaaggaaa caaatgggtt gtttcttggg gacaggttga acagtaagta
152701 tgggtgacagg ttttaattag aagacttcag aagagcaggg ctggggccatg taaatcaaat
152761 cctatatcag ggtctgtact aaactcagaa agactaactc aggcagttac tagagttatc
152821 atgatactac acagaagttc atataaggac cctaactctg aaagcagaga tttgtttgtt
152881 tgtttttttt ggctgcctct agctagcaca tttatgaaaa acaggttaag ttactggctc
152941 caaattactc cttaataaaa aaaacaaaca aacaaaacag cataagcttt taagattttc
153001 ttttttaaaa cctagaaaac agtctccctg tcaagagcag gcatgattaa tgacttctgt
153061 gctgtaagct tgggtatccg ccgtgttact agtgtgtgat actcctaaca gcttgtaatt
153121 gccccgagga tacttttgga actgaaaggt gtggggcggg gcctaccttc ttaatatctc
153181 cataattttt tggggggggg ttagactaca tttatcaatg ggacattgaa aatacagaaa

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FIGURE 6KKK

153241	cattgtcaag	tcatccacat	gaaattatga	atgcattatc	atctgaagag	tcattttccat
153301	aaaacggcag	atgacaaata	gtcagctctc	agtatccatg	ggggatgggt	tcaagatccc
153361	tccctcagac	atgaaaatct	gagatgagca	agtttcttat	tatagatggg	aaatctgcat
153421	atgatttaag	tttttcttcc	tgcatactag	aatcagagc	tagatgggtt	gccatacttg
153481	agagcgcaca	aacgctgcgt	aaacagtcaa	ccgtacggca	ctgcttagag	cagtggttct
153541	caaccttcct	aacgctgcct	ctcaaagtct	gggaatggaa	gggtgtgtgg	accatgctca
153601	gctagaatcc	cattgtaagt	atggcactgg	ctggacctac	atctgcagaa	ctccagggtg
153661	ctgaagggct	gtactgcatc	ctagcagctt	cctaggtctt	aggaagctac	caacctgcaa
153721	actccttctg	aggtgaaacc	acaacagggc	atccaccaa	ctcaaccact	ggaacccaat
153781	gaaccagtca	agttaacaga	acactgagcc	accttttgtg	ctccatgaca	gccctgacag
153841	acaacatagg	caagctctat	cacactgtat	ggctcaacca	gccatatttt	ccatagaggg
153901	gaaatggagt	ttgctgcttt	gtttggcaga	tgcaaagagt	aaagtagagg	ggaaccaa
153961	gagcttagag	cacttgggaa	ggtaggctga	cttcctagt	tgttccactg	taccacgcaa
154021	tcccactatt	agctccccac	ttcctctggg	caacaccaga	tctgaacgaa	acctacagga
154081	aggtttgaag	gtacctggcc	ttctaaattg	tggcttacat	aataacatca	ggccctctgg
154141	tagaccctgt	aggtcaacaa	cctaggaagc	caattcctat	agtccagctt	aaataacaac
154201	cttgtgtttc	aagggaata	aggaaggtgt	ggaaagcctc	cattgacacc	ccaactaact
154261	tgcttttgct	tttctagaga	caactatgca	cttaagaaag	gcaatcgaga	tctgcagtta
154321	atttacagtc	actgagatga	ctcaacatac	gttcatacta	gtagtatctt	cagcttctcc
154381	agtttttttt	ttttaagta	gaaacaaaat	gtccggcctg	acattttaaa	aacctgacct
154441	atgaggaact	tgaaatggtc	agttttacaa	attttccttc	ctttcctctc	tttcttctaa
154501	gtcatttact	gaattatgta	actgactcct	agaacacact	gcagacccca	tatggaataa
154561	gacagcacia	ctcctgcatg	catgatcact	gctgggctgc	aggaatgtgt	taagacacat
154621	gtctgtccct	cagtagtgta	gacacaatcc	ctgtcttgcc	ctttagaagt	ttataagatc
154681	cctgggcaca	cagaacttgt	gcatcaagtt	aaagactaaa	gggccagagt	ggggttgaca
154741	agagcaattt	cttaagagtc	tgaagaaagg	gagccagaaa	catggagaag	gcagtgaaga
154801	ctatttttcag	cagagagaag	agagaatgtt	attgagatga	aaatgtggat	ggcagattcc
154861	agtgcaaggg	gtgcagatct	catagaaggt	gggtcaggga	tgtgggggtt	gaaaatggct
154921	aacagcgagc	tccattatgt	cacagcagag	atgacgcaag	gagctgtctc	ccagcagggtg
154981	agatgatgct	gggtaggcag	gaggtagaca	caggaagtgg	atttaggaac	ccatagcaac
155041	catgagggag	aatgaggggtg	gaacttaaat	aaggagagcat	ttacgtagaa	aagagttggc
155101	agaatttaact	ccatgggaaa	cttagtgga	ctgaggacaa	cgtgtcaact	acaaagacca
155161	gaaagcaggg	ctagttagat	ggctgagtga	ggaaggggtg	ttgctctgac	ttcaatcttc
155221	aggagtcaca	ttccaggctc	tatctccaca	cgtgtgctat	ggcacgtcca	cacatagagc
155281	aaccaaataa	ataaacataa	cattgaaaga	taccagaatg	catgctgtct	ttgaaaaccc
155341	tattcattgt	cttaagtata	agatgacagg	gccatttccc	aaaaccatac	atcttgtgga
155401	gacacaggtg	gggcaaaacc	aggtcaagtt	cagtggacag	caggtaccaa	atggacttat
155461	ggctatacct	ggtaaggcaa	gccatgaaga	tgatgagttc	tggctccctc	gttcttcggg
155521	aacctgaaat	ctggagaagg	gggagggggg	aggaggagga	ggaggagaag	gggaagaggt
155581	agtggtggtc	actggtggac	agggaagaac	atctaggagg	aaagaagcta	cagaagttag

FIGURE 6LLL

155641	tgacggcagg	agaggggtcct	tccaggccat	ggaaacactg	ggcctcaaag	gacaggctgc
155701	tccagtctga	tgctgcatca	gaaacccaca	gtcaatatat	tgaaggtgga	aatctgaaaa
155761	gcacttattt	ttataattaa	atacttttat	gatagagaaa	aaagcaaaca	gagaaaaaaa
155821	agcaaaagca	tcagggtttca	cccaaacaca	gcaatggtca	gtttgggttc	atctgagatg
155881	accaacaaat	gccaatatta	gagttacagt	ttttcaaggc	cataattgct	acatttaaaa
155941	catcaagagt	cacagactgt	ccccaaacag	tcagagccct	catgacctgc	ctgtcccagg
156001	atctgagagc	tacagtgttc	tgcttctatt	tagagcatta	tgaatgctaa	atagaaatgt
156061	tcaaaatatt	ttacaaaatg	aaaagtagac	atcagtccac	tgcagggtcta	aggctgttct
156121	ccaactttta	aatacattag	ttcttttttt	tcctttcccc	tttttctttt	ctggagacaa
156181	ggtctcaggt	agcccaggct	ggcctagtat	tttatgtgtg	actgagaatg	accttgagct
156241	cccgattctc	ctgcctccat	ggaccaacga	gtgcagttct	ttccccctaa	gagtcacata
156301	gttgaaccag	gaaggatggc	tcatgcctgc	aatcccagca	ctcaaagggg	aaaggcagga
156361	gggctgtctt	gagttcgaag	ccagcagggg	ctataaagtg	agctccaaga	taggctgcgt
156421	tgcagaatca	caacacgtct	caaacaacaa	acgtagcaga	catatctaac	ccttaagcat
156481	gacaacgaca	catttgtatg	atacctgaat	aataagaagg	gggtgcatca	ttataattat
156541	tattattttta	cagttgtaaa	catgggaaag	tgctgagcag	ttcaatgagc	ttagggctac
156601	agtcactcaa	ctgcatgcta	gctcagatga	ggataatgca	gaaacgcctg	ccgggaggaa
156661	ggaaggagca	aacacttctg	ccactccgtg	aaatgtcact	caaataacaa	aacaaaccca
156721	ccgaccgacc	tctcaggata	aggaagtgtg	gcggagtggg	aacacactct	tgactgggtg
156781	gtgagggggc	ctgggattct	gtacctagca	tcacacacaa	aaactgcaaa	caaattcttt
156841	aagccatgct	tggtaaaaat	gactcatttt	gaacctagt	tgaattggag	attatttttc
156901	aattaatgaa	gttttttctag	ttggaaggac	ttacaacaag	ggccactatc	ccaaaagccc
156961	ttagggactt	gtctaaatga	gtaaaaatat	tgtgcaatta	ggccaacaac	tgaaactaag
157021	tgcgtctgag	agcttaaaag	tagtctgtct	caagtactag	ttcgaagagc	atcaaatacat
157081	ataaaaagggt	caaaggaatt	taagtgaact	gggttgactt	ttcaaggcac	tgaggtaatt
157141	acaaaataca	ctaaatagca	aatattaggc	ataccctagg	tttagacaaa	caaaaccacc
157201	ctaaaaccgc	cagatcatat	agacacacac	acacacacac	acactcattt	tctctctctc
157261	tctaacacac	acacacacaa	aacacattag	ggtaaataatg	tattagaaaa	acctttgcct
157321	aagatttcct	ttaaacagtg	ggtattatct	atTTTTgttt	ttttctttac	agaacattaa
157381	tttcttttga	aaatgttttg	ggtacagaga	ttgcctgaca	agagtggcca	ccatgaagct
157441	tatgggcacg	tgagaggaga	ggtgaagaag	cctcaatctt	tctgagccca	tttcatctcc
157501	cctattatct	tccacgattt	tcaaaaagcca	ctctactaca	aacctgagaa	acacaggagg
157561	tcagattcac	aaatgaaatc	tctttgtctc	ccttctgtat	gcaccagca	tctgtctccac
157621	ctagctgacc	gttacagggg	cagggccagt	gttaacatgt	caagtgggca	gagggctctc
157681	tgcatctcct	agtacatttc	tggtacagg	tgaactaaat	gacaccaaag	aactgctctc
157741	aaacgtgcat	cccaaggtag	agctacaaag	gttcaatata	accccgat	tttgagagat
157801	cttaaaaacgc	agtcaaagtt	aactgtcatg	tccatagcaa	ggagggaactc	actccttagg
157861	atacactggg	ctggtcttcc	agtgggcatt	tcagagagcc	ctgctttccc	atatcagctc
157921	catcctgtat	cctcacggtt	gcttccaaca	gggaaccgtc	cacatctgac	tgcccaatca
157981	gatttcagca	ggtggcatgg	gggatccaga	aagcatttct	ctgcaccttt	taactctgaa

FIGURE 6MM

158041	ctgcatgcag	aacccgtggt	aagaaatgct	tctctgatcg	ctcctagcac	ttttagtggc
158101	catgtttaat	cagctaagta	agaatgactc	ttccatctgt	gttaagtggc	cttttaaagc
158161	taattcacac	tatctccaaa	taccctgaat	taccaagtct	gagggctgcc	tagattcctg
158221	cttgtaagca	atagaatgac	actgaggact	ctcggctctc	ttctctctcc	catatcctct
158281	ctggttcact	gagaacccaa	catcatctaa	acagaacaaa	aacatcagaa	ctgaaggaat
158341	cgccaaagta	tatacacgtg	actcccgtct	gaatgcattc	agatccgacc	agtgactcca
158401	agctttctgc	atgtttccca	tgagctattt	gccctgaatc	aactcctcac	cacaactctc
158461	gaaatgacat	ggacctctgc	tggtgcaact	attattcctt	ctctgatggg	gagtgggtat
158521	gactgaaaat	tttcgcgcaa	ccagcctcta	aacagaaatg	cagttttattc	tgagtactca
158581	aattcaaadc	tcagtaacac	agcaattaca	ttttaaaata	aattctctcc	atgttcttgc
158641	ttctaagaag	aggggtttagt	gggatatgaa	gagtctaadc	ctaggcaacc	atatggccag
158701	gccaatata	aaccccatat	atgttcacac	atcaagcagg	gcaaactgct	ctgggaacaa
158761	cccttaatat	tttattgcct	gcccagggtgc	ctgagcactt	ctgagataca	cctgtcacag
158821	gaaaatacag	cacttccttc	catctttacc	ccatagttgc	cagacaattg	ggcagagcta
158881	aagtgggtaa	tggtgcagtc	aacacttccc	taaaacattt	atacatgcca	ctgataaaca
158941	atagaaattt	aaaggagata	caaagtact	ccccaaaccc	taaatcttcc	tcccacggag
159001	gcctaaaaac	ttaaaaatct	tcactacact	ggcacagaag	aaggaatata	aattccaagg
159061	ggagcctaga	tttatggcct	aaatatgtct	tcctctagaa	tatttaatac	acttacgctt
159121	tagtcattcc	atacattttg	aaaatactct	agcacgataa	attacagtag	ctgcatcttt
159181	catggttggt	cacataaata	tcatttggct	ttcaggaaac	caattacgga	gcggtaaatc
159241	atttttacat	tgcttttcaa	aatctttaat	ttaacttgca	acacggacag	ggcacacaca
159301	ggctcccagg	aagaacgcag	ctcacacatt	gtatcattcc	ctcttgctccg	agtttagcaa
159361	caaccctga	gtaagccaca	acaatatatt	catgttctaa	aatatttggg	ttatatctat
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159481	tcaagacttg	gggtaggatt	gggaccacat	tgatttcagg	gtgctgactg	tacttctgtc
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159841	cgagtactta	gggagaaaaa	aaaaaaaccc	agctcttagc	tggggagtga	cagtcaaggg
159901	gggaaatcac	gcgaagggaat	ttcttttcagg	tgcaagaagg	catgagagtg	ggagacaagg
159961	attgagcatc	ttggcagaag	gatcagaaac	ccagtccaag	gtctacactt	ccgtggagca
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160081	acactaggga	gccattgtga	attacagcca	acaggtgaga	atcataactt	agcggggcgg
160141	acacaacaac	caagccgtga	tctagagcag	gaagcggggg	atagacagaa	agacaggttg
160201	taatggagga	gaccaagcag	agggctgcat	taaggcagag	gcttctgtgc	tgaccaagtg
160261	actaacacaa	agggcccttg	cagaagacca	gagatgtcag	gggggagaa	tccttctgag
160321	ggggcctagt	tacactagcc	acttgatatt	caccgggaag	gaggcagaga	agctaggagg
160381	gtgggcacaa	aggcagtggc	tctcttctac	ctgaggagag	ctggcagctc	tatcaatacg

FIGURE 6NNN

160441	gactactcct	aaatgggctg	cagtcagccc	agaaaaaaaa	aaaatcactc	aatactctca
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160561	tttaaaagga	gacaactgat	gcttggttta	gtattgtttg	aactacatca	ctcacaaatg
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160741	atagtaggta	actgagtttg	ttttgtacgg	tggttgctct	gttatttcaa	gcagggtggt
160801	ccagagagaa	aaaaacattt	tctggaaaga	ttttaactac	tggatcataa	acaagcgtgt
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160981	ctttgtagac	tgcgacttca	aagggaaact	ggagtctact	tccgcttttc	agtgagttag
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161221	aagaaacatg	acttaagcca	ttacccttat	tctgtgggca	tttgaagtgg	ctgccaggga
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162601	caaacacaca	gcaggctctg	cccaaggagc	gttcactagg	taactatcag	ggtggctcaa
162661	gggctgtacg	acagacagac	cctgcacagg	cagggaaagt	ttcctggaga	cctaccatct
162721	attttcttgt	aatctcaact	gatgtgttct	gccaagtcaa	ctattattta	tcatttataa
162781	agcagctcct	attggcagca	tactctgcat	atgtttcagc	acttcataaa	ccctccacgg

FIGURE 6000

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163261	aagcagcagc	tgcagtgact	agcagtgact	atgcctttgt	gactgcgtat	cactcatcca
163321	attcacagac	tacttagcat	cgacttgtat	acactttgcc	caagaataaa	tatttatatt
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165121	tatattccat	ataaataaaa	attcatcaga	tttgtcttca	cctattttgg	ttgctgtaac
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FIGURE 6PPP

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167341	gtatgctcca	gttagtttta	cgaggtcaac	tctgaacaga	ggaaacaaaa	gcaagcagta
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167521	agcaagggaag	gtctctctga	actggtgagg	aacagcagtc	gtcagtcagt	attactgtcc
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FIGURE 6QQQ

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167761	gttaacggtg	ggaattttctg	agagaatccc	aaagagagct	agctggttgc	ttgaggccaa
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169921	gtaaacagac	cacagacggc	tacagagagc	aacgctgcac	agggcaagga	aaaggggaatc
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FIGURE 6RRR

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170761 gtctctgcct cctgagtgtc gggattaaag gcgtgcgcca ccacgccag gtgggagata
170821 caagttttaa gaggtgggccc tgggtatagg ttcttaggcc actgggtacc ctgtctctcag
170881 agattaaggt aattctcaca agagggctag agaaacgggc caagtgtgac ctctctccac
170941 atctgcttct tatgtttact tgctctcagg ttctctgtac tgactcgagc aagagcaacc
171001 cttaccatag ctgcactatg atgtttggac ttcaaaacca aactctggac attaactaag
171061 atttctcttt ttaaaatcag taatacactg ttgactaaca atgaatgaat gaagcagagt
171121 aagtaggctg aggatggact ggttcaagtt atcttggcag gcagtgaagt tgggtagtgt
171181 acggcttccc tggcatgtgg ccctagggag accaggacag aagaatattg acgcagagtg
171241 tgagaggcca atcaagggaag tgtgggggct gagatatgtg cttctttact acctaggaat
171301 ctacgagaat ctcttcaggc tcagtcgagg cccccaaaac ggcaagcctg tctaagtaca
171361 ggaaacaggc aagattaata tgggaatagt gcgcaaacca attagctcaa aaatttccac
171421 aaccccatgt attagccctc tgctcagctc agggagataa tgagaacaca taacggaagc
171481 tcccagttca ccaatgcaac tggggagcgg ggggggatgg gtacctcaac cactcttaat
171541 gagtctgtag actaagataa cagaatggca gtcttccatc aacatgaggt aaagctagca
171601 tggcacctca gcctttcaaa gttactgttc actgaaatgt tattagaaaa attgccaatt
171661 gtgataaagc ctatggatca aacactactc ccattgcaag gaacattcat aaacagaaag
171721 ctgttgctcag tccccgaaac ttaaaactgt tagagcagag aaaacctgga agaggggaagc
171781 gccataatac ggatgagaaa acagggctag gggctcgtaa atggcagatc aggaaggaat
171841 cccatccgcc ttggagttgg tgatcttgta atgttcagag aatggactca tttcaactca
171901 caggttcggg gtgaccacg tgcttgctga agcaccgtgc ttactgtatg gtgctacaca
171961 agtgaggctc ctcataagct gcagagacac agaaaagtct caagggacag gtgggtgcat
172021 gtgtccaaga cctggctcag cagtttaata gtccagggtg tggcttgctc tctgcttcat
172081 tagtgtgttg ccagcgacta ggaatgtgac ggctaccacc ttgctgtttg gactcatttc
172141 atggggtaac tgcagcaggc acaggggaat agctaagaca gacctgggtg gagggaggca
172201 gctcatcttc aatgcccgga gagcacaacc tatctgatct gatatactct ccagtttaca
172261 aactactgac aatcacatca agtgaagggc agctgcagcc acagctctcc cttgttcaca
172321 gtttgctttc cttggttcta gttacctgaa ggcaactatg acataacaat attaaatgga
172381 aaattacaga aataaagtag ttccttggcc tcaagttgcc tgccactgga agttacagga

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FIGURE 6SSS

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172441 agccatcttg ttgtcctgct ctgtaagggg cctccctttc tgcaacggat ccaggctgta
172501 tacccaacca tcggctagcg acgtcataga gatctgagta gaacaagtgc tgttggtcaa
172561 gtacccttga ctttacttaa cagtgacccc caaacgggaa aaagagtagt gttggcaact
172621 tattacagcc aaaaacatgt tattacaatg ttttttatg actgctgtat tgatactggt
172681 aattgctggg tataattaag ctctcgttata gatacgatt tataggaatt agcagcatac
172741 atcaggtttg gtgggtattta tgggttcagg aatctactac agatctttga aagtatctcc
172801 ctcacaggga gagagactac tgtaccattg ctcttcaatg gtgactccta atactggcat
172861 atagacagct ctgctgacct tttagaagtg ccagagaaca ggcactctgg acacagcgct
172921 gctcttgccc tcgagggatc tgcaagaagg aatggaggga aggatatgtc tctggggacc
172981 agcttctcct ttgaacatgc aggaactaat gagacgcttt ttgaaggagt ccagggtgagt
173041 gacacctatt aaagggtgctt agttaatgct catccccata aacgcccatt acggcgacag
173101 gttcccacta ctcagccgga acgtttgagc tctagatgct cctctgaaga aatggctgaa
173161 aaatcaggga gagatgctaa acccaaacac agtagcagtg ctggcaggag atgagccagg
173221 ctggtgagct gttcgtaaac cagctgtccc cgccccaaag actggagagt acagagaatt
173281 ccatgcaccc agggctcgtct taagacatga acatgctttc agagctgcat ccctaagaaa
173341 ctctacaaa cctgctccag acctgacccc tgcaggctct gtctcacccc tgcccttcca
173401 ctcagctgct cctgagttac agcctggcta aaatagcaat gctacatttt ctgccatttg
173461 gggggccactg aggcaaatga tcatgttgaa ggggtaactg gctattcact caaacctctg
173521 cattcctcag tgagaggaca gtctcagagg atcccaccag gatgtgctgg ctctgcatgg
173581 tgggtgtcag aactacattc gatttgaggg taccataggg tgtttgctgg gctggaaccc
173641 tgcttgtggg tattgaaaat cacgtactgg gagtcaggag cgttgtgagt acaaacattt
173701 cagagtgttg agagtgttg gtgggggttt aggaacaagg caggctctga cttaccagaa
173761 ctgcagcttt tattctgaag tttcttttaa gaaccaagat taggggctgg agagatggct
173821 cagagggtta gagcaccga ctgctcttcc gaaggctctg agttcaaate ccagcaacca
173881 catggtggct cacaaccatc tghtaatgaga tctgactccc tcttctgggg tgtctgaaga
173941 cagctacggc gtacttacat agaataaata aataaataaa tctttaaaaa aagaaaaaaa
174001 ggaaccaaga ttaggcattt gattcattaa acaggacagg ggatcaaata cctccgttgg
174061 gctctcgaga acatgacagg gtgggggtgtg cagataagaa ggctctagct agggtagctg
174121 gaatccctct ttcaacgatg gcgaagcact ggcacccgta gaaagaagga atgatacgaa
174181 tcagcccact attctgaact atgtccctgc ccagacacag aggcacatgc tgggcctgca
174241 gcaaatagcc ctggagccac actcgtgggt ggcgtgcaga ggaggaacca acccatcaga
174301 actctgtccg tgtgggtgtg tgtaggtgcc tgtgggtgaag gtcagaggtc aactcagggtg
174361 tccaatccag gctccttttg aacttctagc ttagtttgtc aacactggca gctgaattgg
174421 gtttgtttgt ttgttttttg agatgtgac ttagatctgca gccaggctg ggcttgaatt
174481 c

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FIGURE 6TTT

1 aaagggaatt tcacccaaa taaaaggaat gaagtctggc tccggaggag ggtccccgac
exon 1

61 ctgctgtgg gggctctgt ttttccgc cgcgctctc ctctggccga cgagtggaga
121 a|atctgcggg cggggcattg acatccgcaa cgactaccag cagctgaagc gcctggagaa
exon 2 Primer 1

181 ctgcacggtg atcgagggt accctccat cctgctcct tccaaggctg aggactaccg
241 cagctaccgc ttcccaagc tcacggtcat caccgagtac ctgctgctgt tccgtgtggc
301 tggccttgag agccttggcg acccttctcc caatctcacg gtcacccgcg gctggaagct
361 cttctacaac tacgccctgg tcattctga gatgaccaac ctcaaggaca tcgggctcta
421 caacctgagg aatattaccg ggggggccat caggatcgag aagaatgcYg accctgtcta
SNP469

481 cctctctacg gtggactgg cctgctcct ggatgccgtg tccaataact acatcgtggg
541 caacaagccc cctaaggaat gcggggactt gtgccaggag acgctggagg agaagccgct
601 gtgtgagaag acgaccatca acaacgagta caactatcgc tgctggacca cgaaccgctg
Primer 2

661 ccagaaa|atg tccccgagcg tgtgcgggaa gcgggcgtgc acagagaacc acgagtgtctg
exon 3 Primer 3

721 ccaccccgag tgctgggca gctgcagcg acccgacaac gacacRgcct gtgtggcctg
SNP766

781 ccgccactac tactacgccg gactctcgt gccagctgc ccaccaaca cctaccgctt
841 cgagggctgg cgtgcgtgg accgcgactt ttgcgcaac atccccagt cggagagcag
901 tgactccgag ggctttgtga tccatgatg Sgagtgcag caggagtgc cttcaggctt
SNP931 Primer 4

961 catccgcaat ggcagccaga gc|atgtactg tatcccttgc gaaggccctt gccccaaagt
exon 4

1021 ctgtgaggaa gagaagaaga caaagaccat tgattctgtc acttctgtc agatgtcca
1081 aggatgcacc atctcaagg gcaacctgct cattaacatc cgacgcggc|a acaacattgc
exon 5

1141 ctgggagcta gagaacttca tggggctcat cgagggtgtg acgggctacg tgaagatccg
1201 ccactcccat gccttggct cctgtcctt cctgaaaaat cttcgccaga tctagggga
1261 ggagcagctg gagggg|aatt actccttcta cgtccttgac aaccagaact tgcagcagct
exon 6

1321 gtgggactgg gaccatgca acctgacct caaagctggg aaaatgtact ttgcttcaa
1381 tcccaaattg tgtgtctccg agattaccg catggaggaa gtgacaggga ctaaagggcg
1441 ccagagcaaa ggggacataa acaccaggaa caatggagag agagcctcc|t gtgaaagtga
exon 7 Primer 5

1501 cgctctKcac ttcacctca ccaccagtg gaagaaccgc atcatcatca cctggcaccg
SNP1507

1561 ataccggccc cctgactaca gggacctcat cagcttact gtctactaca aggaagcg|cc
Primer 6 exon 8

1621 ctttaaaac gtcacggagt atgatgggca ggatgcctgt ggctccaaca gctggaacat
Primer 9

1681 ggtggacgtg gacctcctc ccaataagga cgtcagacct ggcattctac tgcattggct
1741 gaagccctgg acacagtacg cYgtttacgt cRaggccgtg accctacca tgggtggagaa
Primer 7 SNP1762 SNP1772

FIGURE 7A

1801 tgaccacatc cgtggggcca agagtgagat cttgtacatt cgcaccaatg cttca|gttcc
Primer 8 exon 9

1861 ttccattccc ctggatgtcc tctcagcatc aaactcctct tctcagctga tagtgaagt
1921 gaacccgccc tccctgccc atggcaacct gagctactac atcgtgcggt ggcagcgcca
1981 gcctcaggac agctatctct accggcataa ttactgtcc aaa|
Primer 10

ggtgagg gggacatggg acacctgtgg ctctgactcc cgagccctat gctacgcatt cagcatcagg ctgctgtgt
Intron 9
gtgcagcctt ggccatggc acaggtgcta accgYggtgt cYtcccgta cggttgggta acttggctct
SNP9i112 SNP9i119

ccttgggctg ctcttttcca agca
|gacaaaa tccccatcag
exon 10

2041 gaagtatgct gatggcacca ttgatgtcga ggaggctaca gagaacccca agactgaagt
2101 gtgtggcggg gagaaggac catgtgtgc ttgccccaaa acagaagctg agaagcaggc
2161 agagaaggag gaggtgagt accgcaaggt cttcgagaac ttctgcaca atgccatct
Primer 11

2221 tgtgcccaga| cctgaacgga agcggaggga ggtcatgcag gtcgcaaYa ccaccatgc
exon 11 Primer 12 SNP2269

2281 cagccggagc agaaacacca cagtgttga cacctacaat gtcacggacc cagaggagct
Primer 13

2341 tgagacagag taccctttt ttgagagcag agtggataac aaggagagaa ctgtcatttc
2401 caacctccgg cttttactt tgtaccgaat tgacatccac agctgtaacc atgaggctga
2461 gaagctgggc tgcagtgcct ccaactttgt ctttgcaaga accatgcctg ca|GGTAT
Intron 11

GGTGTGATCCAGTCACTCCATTCCCTAATTCACTCACAGCCTTGATTTGTAC
AGATGGAGGCTGACACCCAGGGCAATGACCCTTACTCTCAGTCCTGCTTA
TTAAAGAATGAGTGGTCTTTTGTAGGCAGCTCACTAGTCCAGCAGCCCAG
GAATGGAGTTCATTCATAGCAACCCCACTCTCTCCCCAGTCTCTCCATACA
GAGTGCTTGAGAGCAGGGAACCTCAATTCAGGGTCTACACTTTCCCTCTCCT
TGGTTCATGTTGTGCATTGCCGTGGGCCCCTTTTTTTTGGCCATTTATGCAAA
GGGAAATTTGCCAGGTCTCTCCTGAGTTCTCAGAGATTC
TGTGAAATCCTCAGTTGGCTGCCCTGAATCAAAGTGAGTGTAGCTCCTGA
AGGTCAGCTCCCAGAGCAGCTTCGCGTCCTGCTTGTTTGGTCCTCACCTTC
CTCTTCTTTTAGAAGCTACCTGTGGCCCAGACAGCAAGCCATC(N)_nAAAAA
AAAAAAGAAACCTACTGT
GTATGTGAGGTCAGGTCAGGAGAAATGAACGCAGGTACCGTCTGCAGTCC
TGTATGCATGGTTGAAGAGGGTATTCTTAGGTTTAA
TCCAGCATTTTTTGTCTTTTTTGGGGGACTTGAGTCTAACTTCATTGCTTGT
TTCAATTGTTGCACA|gaaggagc
exon 12

2521 agatgacatt cctgggccag tgacctggga gccacggcct gagaactcca tctttttaa
2581 gtggccagaa cctgagaatc ctaatggatt gattctaag tatgaaataa aatacggatc
2641 acaagtcgag| gatcagcggg aatgtgtgc cagacaggag tacaggaagt atggaggggc
exon 13

2701 caagctgaac aggtcaacc cggggaacta cagggcccg attcaggcca cctctctctc

FIGURE 7B

2761 cgggaatggg tcatggacgg aacctgtgtt cttctacgtc caggccaaa|a cgacatatga
exon 14

2821 aaacttcate catctgatca tcgccctacc agtggccgtt ctgttgatag taggagggtt
2881 ggttataatg ttgtacgtct tccacagaaa gaga|aataac agcaggctgg ggaatggagt
exon 15

2941 gctgtatgct tccgtgaacc cggagtactt cagcgcagct gat|gtgtacg tgcccagcga
exon 16

3001 gtgggagggtc gcccgggaga agatcaccat gagccgggag ctgggacagg gtccttcgg
Primer 14

3061 gatggtttat gaaggcgtcg ccaaSggYgt ggtcaaagat gagcctgaga ccagggtggc
SNP3085 SNP3088

3121 cattaagaca gtgaatgagg ccgccagcat gcgYgagagg attgagtttc tcaacgaggc
SNP3154 Primer 15

3181 ctccgtgatg aaggagttca actgtcacca cgtg|GTGAGGGAAGGGCCCCAAG
Primer 16 Intron 16

GGTTGGGRCCACCCTTATGGGTTTGGGACTCATCCTGTCTCTGTAGGATCC
CTSTCACTGCTCAAGAAGGTTGGGGGGGATGTGCA
SNP16i27 SNP16i73

GGTCCAGGGAGTCTGGTGCCACATCATCCAGGGTTGCTCAGGGTGGTCCT
GGTGGGGTTGGGGGGGCTGCGGGGGGCTACCCCCCTGTCTCCTTCTCTTTCCC
CCTCACAG|gtgcgg ctgctgggtg tgggtgccca
exon 17

3241 gggccagcca acgctggta tcatggaact gatgaccgg ggggacctca aaagtatatc
Primer 17

3301 ccggtctctg agaccagaaa tggag|aataa tccagtccta gcacctcaa gcctaagcaa
exon 18

3361 aatgatccag atggctggag agatYgcaga tggcatggca tacctcaacg ccaataagtt
Primer 18 SNP3385 Primer 20 Primer 19

3421 tgtccacaga gacctcgctg cccggaactg Yatgggtggcc gaagacttca cagtcaaaat
SNP3451 Primer 21

3481 cgga|gatttt gggatgacga gagacatcta tgagacagac tattaccgca agggagggaa
exon 19

3541 agggctgctg cctgtgcgt ggatgtcccc tgagtcctc aaggacggag tcttcaccac
3601 gcactctgat gtctgg|tcct tcggggtcgt cctctgggag attgccacgc tggccagca
exon 20

3661 gccataaccag ggcttgcca acgagcaagt ccttcgcttc gtcattggagg gcggccttct
3721 ggacaagccg gacaactgtc ccgacatgct g|tttgaVctg atgcgcatgt gctggcagta
SNP3757 exon 21

3781 caaccccaag atgaggcctt ccttcctgga gatcatcagc agcatcaagg aYgagatgga
Primer 22 SNP3832

3841 gcctggcttc cgggaggtct ccttctacta cagtgaggag aacaagccgc ctgagccgga
3901 ggagctggac ctggagccgg agaacatgga gagcgtcccc ctggaccctt cggcctctct
3961 gtctccctg ccgctgccc acagacactc aggacacaag gctgagaacg gccaggcccc
4021 tggcgtgctg gtgctgcgag ccagcttca cgagagacag ccttacgcgc acatgaacgg
4081 gggccgcaag aacgagcggg cctgcctct gcccagtc tcgacctgct gatcctggat
Primer 23

4141 cccgatcccc tgcaaacagt accgtgcgca cgccggcgagg cggggggaga gttttaacaa
4201 tctattcaca agcctctgt acctcagtg atcttc

FIGURE 7C